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Catalogue

RIPON COLLEGE



1908

1850 - 1908

RIPON COLLEGE

Catalogue

1907-1908

BULLETIN NO. 28, APRIL, 1908

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1908

APRIL

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1909

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APRIL

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AUGUST

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JUNE

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SEPTEMBER

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COLLEGE CALENDAR

1908

March	27,	Spring Vacation beings 8 a. m.....	Friday
April	7,	Spring Vacation ends, 8 a. m.....	Tuesday
April	13,	Senior Thesis due	Monday
June	7,	Baccalaureate Sermon	Sunday
June	8,	Annual Meeting of the Board of Trustees.....	Monday
June	9,	Annual Meeting of the Alumni	Tuesday
June	10,	Forty-second Annual Commencement.....	Wednesday
June	11,	Summer Vacation begins	Thursday
September	15,	Summer Vacation ends	Tuesday
September	16,	Registration for First Semester.....	Wednesday
September	17,	Lectures and Recitations begin.....	Thursday
November	26,	Thanksgiving Recess	Thursday
December	23,	Christmas Vacation begins, 12 m.....	Wednesday

1909

January	5,	Christmas Vacation ends 8 a. m.....	Tuesday
January	22,	Registration for Second Semester.....	Friday
January	28,	Day of Prayer for Colleges.....	Thursday
February	3,	First Semester ends	Wednesday
February	4,	Second Semester begins.....	Thursday
April	7,	Spring Vacation begins 12 m.	Wednesday
April	15,	Spring Vacation ends 8 a. m.	Thursday
April	18,	Senior Thesis due	Monday
June	13,	Baccalaureate Sermon	Sunday
June	14,	Annual Meeting of the Board of Trustees.....	Monday
June	15,	Annual Meeting of the Alumni	Tuesday
June	16,	Forty-third Annual Commencement	Wednesday
June	17,	Summer Vacation begins	Thursday
September	14,	Summer Vacation ends	Tuesday
September	15,	Registration for First Semester.....	Wednesday
September	16,	Lectures and Recitations begin 8 a. m.	Thursday

BOARD OF TRUSTEES

OFFICERS

Richard C. Hughes, President.
A. E. Thompson, Vice-President.
Samuel M. Pedrick, Secretary.
Albert G. Farr, Treasurer.

Term Expires 1908.

William J. Starr, Lumberman and Manufacturer.....Eau Claire
Samuel M. Pedrick, Attorney-at-Law.....Ripon
F. J. Lamb, Attorney-at-Law.....Madison
A. E. Thompson, Attorney-at-Law.....Oshkosh
Fred W. Rogers, Mortgages, Loans and Insurance.....Milwaukee
Luther L. Wright, Superintendent of Public Schools at Iron-
wood, Mich., and State Commissioner of Education for
MichiganIronwood, Mich.

Term Expires 1909.

O. H. Ingram, Lumberman and Banker.....Eau Claire
Frederick W. Upham, President of Board of Review, Cook
County, Ill., of Upham & Agler, of Wisconsin Oak Lumber
Co., and of City Fuel Co.Chicago
W. H. Hatten, Lumberman and Manufacturer.....New London
Albert G. Farr, of N. W. Harris and Co., Bankers, New York
and Boston and Vice-President of the Harris Trust & Sav-
ings Bank, Chicago.....Chicago
D. D. Sutherland, Attorney-at-LawFond du Lac
Henry E. Knapp, BankerMenomonie
Wm. R. Dawes, Cashier Central Trust Co., of Illinois.....Chicago

Term Expires 1910

O. J. Clark, Retired Merchant.....Ripon
J. Beveridge Lee, D.D., Secretary for Colleges of Presbyterian
General AssemblyChicago
George L. Field, President of First National Bank.....Ripon
Frank K. Sanders, Ph.D., D.D., Secretary of the Congregational
Sunday-School & Publishing Society.....Boston, Mass.
O. W. Mosher, President of the Northern Grain Co.New Richmond

STANDING COMMITTEES

EXECUTIVE COMMITTEE—Messrs. Clark, Farr, Field, Pedrick and Thompson.
INSTRUCTION—Messrs. Dawes, Farr, Sanders, Starr and Wright.
GROUNDS AND BUILDINGS—Messrs. Knapp and Rogers.
AUDITING—Messrs. Hatten and Sutherland.
INVESTMENTS—Messrs. Farr, Clark, Field and Pedrick.
HONORARY DEGREES—Messrs. Ingram and Lamb.

The president is a member, ex-officio, of all Committees, except the Audit-
ing Committee.

HISTORICAL SKETCH

Ripon College, known for ten years after its foundation as Brockway College, was incorporated January 29, 1851. It was incorporated first as the "Lyceum of Ripon" on November 23, 1850. The officers of this early organization were as follows: David P. Mapes, President; Alvan E. Bovay, Secretary; E. L. Northrup, Treasurer. On the resignation of Mr. Mapes, President of the Board, the Reverend J. W. Walcott was elected as his successor.

Hindered by the financial crash of 1857, and interrupted by the Civil War in 1861, the College continued, with varying degrees of success until 1863. In that year, Dr. William E. Merriman was called to the presidency, and under his vigorous leadership the College entered upon a new era. Until this time only secondary school work had been done. Now regular college classes were organized and the first baccalaureate degrees were conferred at Commencement of 1867.

The history of the College since the resignation of President Merriman in 1876 covers the administration of three presidents: Edward Huntington Merrell, D.D., LL.D., 1876-1891; Rufus Cushman Flagg, D.D., 1892-1901; Richard Cecil Hughes, A.M., D.D., 1901.

From the beginning the College has been under the control of a Board of Trustees, who have uniformly conducted its affairs wisely, economically and with foresight. From 1855 to 1864 the Board was served by four different secretaries, Mr. J. W. Walcott, Mr. Hiram Freeman, Mr. C. C. Bayley and Mr. J. C. Catlin. In 1864 Storrs Hall, M.D., was made Secretary and served faithfully and efficiently until 1899. At that date Mr. Samuel M. Pedrick was elected to the office, which he still holds.

The Board has been equally fortunate in its Treasurers. Mr. Jehdeiah Bowen was twice Treasurer, between the years 1851 and 1861, and again from 1865 to 1882. The Treasurer from 1861 to 1865 was Mr. Charles F. Hammond. Mr. A. P. Harwood was elected in 1882 and served until 1883. Mr. J. A. Chamberlain served from 1883-84. Mr. Harwood was again elected in 1884 and served until 1886. In that year Mr. Joseph Scribner was made Treasurer and held the office until

1899, when Mr. S. M. Pedrick was elected. Mr. Pedrick was followed in 1905 by Mr. George L. Field, President of the First National Bank of Ripon.

From 1876 to 1886 Mr. George C. Duffie as Assistant Treasurer had the care of the books and the responsibilities of Treasurer fell largely upon him.

From 1905 to 1907 Mr. Frederick Spratt as Assistant Treasurer gave constant attention to the accounts and to the financial affairs of the College.

The present Treasurer, elected in 1907, is Mr. Albert G. Farr, Vice President of the Harris Trust and Savings Bank, Chicago.

The President of the College is ex-officio President of the Board of Trustees. Mr. Albert E. Thompson, of Oshkosh, has been Vice President of the Board since June, 1906.

FACULTY

- RICHARD CECIL HUGHES, A.M., D.D.**309 Seward St.
 President and Professor of Psychology.
 A.B., Wooster University, 1884; A.M., Wooster University, 1887;
 D.D., Wooster University, 1900. Student, Princeton Theological Seminary, 1884-85. Graduate of McCormick Theological Seminary, 1887. Pastor Presbyterian Church, Sidney, Ia., 1887-91. Professor of Psychology, Tabor College, 1891-1901. President of Tabor College, 1897-1901; Ripon College, 1901.
- EDWARD HUNTINGTON MERRELL, A.M., D.D., LL.D.** ...302 Elm St.
 Professor Emeritus.
 A.B., Oberlin College, 1859; A.M., Oberlin College, 1862; D.D., Lawrence University, 1876; LL.D., Middlebury College, 1893. Professor of Greek, Ripon College, 1863-76; President of Ripon College, 1876-91; Professor of Philosophy, Ripon College, 1876-1906. Professor Emeritus, on the Carnegie Foundation.
- CHARLES HENRY CHANDLER, A.M.**Smithville, N. H.
 Professor Emeritus.
 A.B., Dartmouth College, 1868; A.M., Dartmouth College, 1871. Teacher of Science at Kimball Union Academy, Meriden, N. H., 1868-69. Principal of St. Johnsbury (Vt.) Academy, 1869-71. Professor of Mathematics and Physics, Antioch College, 1871-81. Ripon College, 1881-1906. Professor Emeritus, on the Carnegie Foundation.
- EDWARD WILLIAM CLARK, A.M.**615 So. Grove St.
 Professor of Latin and Roman Archaeology.
 A.B., Oberlin College, 1890; A.M., Oberlin College, 1895. Instructor in Latin, Oberlin College, 1891-93. Student in the University of Leipsic, 1893-95. Member of the School of Classical Studies in Rome, 1904-5. Ripon College, 1895.
- MARY CORINTHIA HARWOOD, M.L.**121 Thorn St.
 Dean of Women, and Professor of French and German.
 B.L., Lawrence University, 1888; M.L., Lawrence University, 1891. Student in France and Germany, 1891-93, 1901-2, 1904. Assistant Principal, Traer (Ia.) High School, 1888-90. Instructor in French and German, Grafton Hall, Fond du Lac, Wisconsin, 1893-94. Student in France, 1907. Ripon College, 1895.
- FRANK MORTON ERICKSON, A.M.**529 Woodside Ave.
 Willcox, Professor of Greek Language and Literature.
 A.B., Wabash College, 1892. A.M., University of Chicago, 1895. Student of Archaeology, Athens, Greece, 1900. Teacher of Greek and Latin, Highland University, 1892-94. Member Graduate School, Harvard University, 1906-7. Ripon College, 1895.

R I P O N C O L L E G E

- OLIVER JONES MARSTON, A.M.234 Elm St.
 Professor of History and Political Economy.
 A.B., Greer College, 1898; A.M., Greer College, 1899. Graduate Student, Johns Hopkins University, 1898-99. Graduate Student, University of Wisconsin, 1899-1902. Instructor in History, Greer College,, 1897-98. Instructor in History, Ripon College, 1902-3; Ripon College, 1903.
- CARL SPENCER MILLIKEN,* S.B.....621 Woodside Ave.
 Professor of Biology.
 S.B., Massachusetts Institute of Technology, 1899. Teacher of Science, Flint (Mich.) High School, 1899-1901. Teacher of Biology, Lawrence (Mass.) High School, 1901-3. Ripon College, 1903.
- THEODORE FREDERICK MEIER, A.B.....East Fond du Lac St.
 Professor of Music.
 A.B., Mission House College, 1893. Student Chicago Conservatory of Music, 1894-96. Student Stuttgart Royal Conservatoire, 1900-3. Professor of Music, Atlantic (Ia.) Normal School, 1896-98. Central State Normal School, Mt. Pleasant, Mich., 1898-99. Ursinus College, 1899-1900. Ripon College, 1903.
- JESSE FOX TAINTOR, A.B.....616 Ransom St.
 Professor of English Literature.
 A.B., Ripon College, 1873. Andover Theological Seminary, 1875-78. Pastorates in Iowa, 1878-83. Rochester, Minn., 1886-1903. Student Chicago University, 1903, 1905. Ripon College, 1905.
- WILLIAM HARLEY BARBER, B.S.120 Thorn St.
 Professor of Physics.
 B.S., University of Wisconsin, 1901. Assistant Principal Ripon High School, 1901-4. Principal Ripon High School, 1904-5. United States Department of Commerce and Labor, Bureau of Standards, Washington, D. C., 1905-6. Ripon College, 1906.
- ALBERT FRANKLIN GILMAN, A.M.....406 Thorn St.
 Professor of Chemistry.
 S.B., Amherst College, 1897; A.M., Amherst College, 1901. Teacher of Science, Farmington, Me., 1897-98. Professor of Science, Dow Academy, Franconia, N. H., 1898-99. Professor of Chemistry and Physics, Maryville College, Maryville, (Tenn.) 1900-6. Student Harvard University, 1903. Student Chicago University, 1905-6. Ripon College, 1906.
- FREDERICK WILLIAM LUEHRING, Ph.M.521 Woodside Ave.
 Professor of Sociology, and Athletic Director.
 Ph.B., Northwestern College, 1905. Ph.M., University of Chicago, 1906. Y. M. C. A. Training School for Physical Directors, 1903. Assistant in Physical Training, Northwestern College, 1903-4. Director of Physical Training, University of Chicago Settlement, Chicago, 1905-6. Ripon College, 1906.

*Resigned, January 1, 1908.

R I P O N C O L L E G E

- GEORGE PORTER PAINE, A.M.533 Thorn St.
 Professor of Mathematics.
 A.B., Harvard College, 1905. Williams Scholar, Harvard Graduate School, 1905-6. A.M., Harvard, 1907. Ripon College, 1907.
- SHIRLEY FARR, Ph.B.121 Thorn St.
 Associate Professor of History and the French Language.
 Ph.B., University of Chicago, 1904. Graduate Student, University of Chicago, 1904-5. Student in France, 1901-2 and 1905-6. Ripon College, February, 1907.
- WILLIAM JAMES MUTCH, Ph.D.633 Lincoln St.
 Professor of Philosophy and Education.
 A.B., University of Wisconsin, 1882. B.D., Yale Divinity School, 1885. Ph.D., Yale University, 1894. Lecturer in Pedagogy, Yale Divinity School, 1900-2. Pastor of Howard Avenue Congregational Church, New Haven, Conn., 1885-1907. Ripon College, 1907.
- HOWARD FRANK SHURTLEFF, A.M.434 Thorn St.
 Professor of English Composition and Rhetoric.
 A.B., Harvard, 1905; A.M., Harvard, 1907. Ripon College, 1907.
- GEORGE ADDISON TALBERT, M.S.
 Professor of Biology.
 B.S., Ohio Wesleyan, 1888; M.S., Ohio Wesleyan University, 1891. Graduate student, Johns Hopkins University, 1888-89. Chicago, 1899. Woods Hole Marine Laboratory summers of 1893-94-95, and Leland Stanford Marine Laboratory the summer of 1897. Teacher of Biology, Racine High School, 1889-92; La Porte, (Ind.) 1892-97; Superior 1897-98; Duluth, 1900-01; Oshkosh, 1901-02, and Stevens Point Normal School, 1902-07. Ripon College, 1908.
- EMMA SAPHENE WYMAN, B.I.Hotel Englebright
 Instructor in Art and Public Speaking.
 Graduate of Boston Normal Art School, 1893. B.I., Philadelphia College of Expression, 1894. Graduate Emerson School of Oratory, 1906. Student under Ramsey, Lessoff, Bishoff. Teacher of Art, Platteville (Wis.) State Normal School, 1893-1902. Member Society Arts and Crafts, Boston. Ripon College, 1903.
- SARA LOUISE WHEELER,* A.B.Bartlett Cottage
 Head of Bartlett Cottage.
 Instructor in Greek and Latin.
 A.B., University of Michigan, 1897. Teacher of Latin and English, W. Bay City (Mich.) High School, 1897-99. Teacher of Greek, Latin and English, Flint (Mich.) High School, 1899-1906. Ripon College, 1906.

*Resigned, February 1, 1908.

R I P O N C O L L E G E

- FLORENCE CATHERINE HAYSBartlett Cottage
 Librarian.
 Head of Bartlett Cottage since February 1, 1908.
 Wisconsin Library School, 1901-4. Oshkosh Public Library, 1896-1902.
 Librarian, Manitowoc, Wis., Public Library, 1902-4. Cataloguer, Manis-
 tee, Mich., Public Library, 1905. Ripon College, 1907.
- ALICE WITBECK,* B.L.434 Thorn St.
 Instructor in French and German.
 B.L., Swarthmore College, 1898. Language Student in Paris and Ber-
 lin, 1900-2. Head of Modern Language Department, Decatur, Ill., High
 School, 1902-4. Graduate Student, University of Chicago, 1905-6. Pro-
 fessor of German and French, Tabor College, 1906-7. Ripon College,
 1907.
- TITUS EUGENE MERGENDAHL, B.S.West Building
 Instructor in Mathematics.
 B.S., Tufts College, 1907. Instructor in Mathematics, Tufts College,
 1906-7. Ripon College, 1907.
- GEORGE BICKNELLSmith Hall.
 Instructor in Manual Training.
 Student Northern Indiana Normal, 1895-6. Union Christian College,
 Merom, Indiana, 1897-9. Principal Grammar Department Public Schools,
 Sullivan, Indiana, 1899-1904. Principal Graysville High School, 1904-7.
 Ripon College, 1907.
- MRS. MARIE HESTER202 East Division St., Fond du Lac
 Instructor in Vocal Music.
 Student in Boston under Mr. Chas. R. Adams, 1886-1891. Opera and
 Concert, Melbourne, Australia, 1891-2. Director of Vocal Music Depart-
 ment, Ferry Hall, Lake Forest, Ill., 1892-7. Instructor in Vocal Music,
 Michigan Seminary, Kalamazoo, Mich., 1897-9. West Virginia Univer-
 sity, 1899-90. Grafton Hall, Fond du Lac, 1903-6. Ripon College, 1907.
- EVA FLOY DAVIS609 Newberry St.
 Instructor in Latin.
 A.B., Ripon College, 1904. Teacher of Latin and German in High School
 at Union Grove, Wis., 1905. West Green Bay High School, 1905-7.
 Ripon College, February 1, 1908.
- ISABEL M. WAIT.....Bartlett Cottage
 Instructor in French and German.
 A.B., University of Michigan, 1907. Graduate Student, University of
 Illinois, 1907-8. Ripon College, April 7, 1908.
- HELEN TOOMBS107 Doty St.
 Assistant Librarian.

*Died February 24, 1908.

COMMITTEES OF THE FACULTY

Admission	Alumni
The Registrar.	Professor Taintor.
Chapel Service and Religious Life	Commencement
Professor Mutch.	Professor Paine.
Men's Dormitories	Women's Dormitory
Professor Barber.	Professor Harwood.
Forensics	Library
Miss Wyman.	Professor Marston.
Publication	Social Life
Professors Taintor, Erickson and Shurtleff.	Professor Harwood.
Student Aid and Recommendations	Student Societies
Professor Clark.	Professor Gilman.
Athletics	Scholarships
Professor Luehring.	The President.

CLASS OFFICERS

Freshman Class	Junior Class
Professor Barber.	Professor Luehring.
Sophomore Class	Senior Class
Professor Taintor.	Professor Marston.
For the incoming Freshman Class—President Hughes.	
The President of the College is ex-officio a member of each committee of the faculty.	

OFFICERS

RICHARD C. HUGHES	President
MARY C. HARWOOD	Dean of Women
FRANK M. ERICKSON.	Registrar and Secretary
EVA FLOY DAVIS	Assistant Registrar
WILLIAM H. BARBER	Secretary of Faculty Club
FLORENCE C. HAYS	Head of Bartlett Cottage
MRS. ANNA CALLAHAN.....	Matron of the Commons
HERMAN GADSKI	Head Janitor

THE COLLEGE ENTRANCE REQUIREMENTS

GENERAL REQUIREMENTS

All candidates for admission to the College must present satisfactory evidence of good moral character. Those coming from other colleges must present letters of honorable dismissal.

A candidate who offers credentials from a recognized school showing that he has completed the requirements for entrance as given below, will be admitted, provisionally, to the freshman class. One who does not offer credentials will be examined upon the work required for entrance.

Whether a student enters by certificate or by examination, he is not given full standing until he has shown by doing satisfactory work that he is able to pursue a college course with profit. Specific requirements for entrance are given below.

Entrance requirements are expressed in terms of units. The unit is the equivalent of a five-hour course of study of high school grade through one year. Fourteen such units are required for entrance to the freshman class. Of these fourteen units, eight are prescribed, six are elective within certain limits.

Prescribed:

English, 2 units; History, 1 unit; Mathematics, 2 units; Science, 1 unit; Foreign Language, 2 units.

Elective:

Six units selected from the following list:

English, 1 or 2 units; Civics-Economics, 1 unit; Mathematics, one-half unit; Science, 1, 2 or 3 units; History, 1, 2 or 3 units; Foreign Language, 1, 2, 3 or 4 units.

Not more than four units in one subject will be accepted, nor less than two units of any one language.

The two required units in English include Composition and Literature. In Composition, the student must show ability to write a short essay, correct in spelling, punctuation, grammar and division into paragraphs. In Literature, the requirement is that set by the Commission of New England

Colleges and Secondary Schools, but allows selection from a large number of masterpieces.

The third unit should be the history of English literature; the fourth unit advanced study of masterpieces.

The two required units in Mathematics are Elementary Algebra, one unit; Geometry, plane and solid, one unit. Additional credit to the amount of one-half unit will be given for advanced algebra.

In History one unit is required; as many as four will be accepted.

In Science one unit is required; as many as four will be accepted and full units are preferred to half units, but one-half unit of Physiology or Physical Geography may be substituted for one-half unit of Botany.

In Foreign Language, if only two units are offered they must be in one language. Not more than four units in any one language will be accepted, but six units will be accepted if they include either two or three languages.

ENGLISH COURSE GRADUATES

Graduate from the four-year English course of an approved high school will be admitted to provisional freshman standing. The condition will be removed when the student has met the entrance requirement in language. This may be done by extra work amounting to one five-hour course through the year. Special classes will be formed for this work.

ADMISSION BY CERTIFICATE

Graduates of any Wisconsin high school, on the accredited list, will be admitted to the freshman class without examination, on the principal's recommendation and certificate showing that the student has successfully completed the courses required for entrance. Information concerning the accredited schools will be furnished on application.

Graduates from schools in other states will be admitted on the same condition as graduates from Wisconsin schools, provided the certificate of the school admits to the recognized colleges of that state.

Certificates should be made out on blanks which will be

furnished by the Registrar on application, and should be returned to him before the opening of the college year.

Certificates issued by the state normal schools or recognized academies of the state will be accepted for the entrance requirements in the subjects covered by such certificates.

SPECIAL STUDENTS

Any person not a candidate for a degree but wishing to pursue special studies will be admitted to college classes on presentation of evidence of his ability to carry on such work with profit.

THE HIGH SCHOOLS

The College recognizes the fact that the majority of the High School graduates will not enter College, but it is also mindful of the fact that the majority of those who do enter College must come from the High Schools. It aims, therefore, so far as possible, by its Catalogues and Bulletins to keep the schools informed as to its courses and its advantages. It is the purpose of the College so to adapt its courses to the work of the High School that the student who enters College may find no break in the continuity of his studies.

SUB-FRESHMAN CLASSES

For students who have not completed all the college entrance requirements the College makes special provision. Courses are outlined to enable the student to complete the requirements under the direction of capable instructors. These instructors do their work under the direction of the college professors and these classes have the use of such parts of the college library and laboratories as they need.

For example, in English the course is arranged to meet the varying needs of the students. It has special reference to completion of the college entrance requirements. In Latin, a three-year course for those who have not had Latin in the High School, is offered. In German, a two-year course is provided. There is also a two-year course in Elementary Greek. In other departments, similar provision is made as the number and grade of the unprepared students may demand.

A special bulletin will be mailed on request.

NORMAL SCHOOL GRADUATES

Graduates from the state normal schools who were graduated previously from a four-year high school course admitting to the college, will be given the degree of Bachelor of Arts on the completion of the major subjects as described on page 54 and those of the required subjects for which no equivalent has been taken at the normal school. The time required to complete this course will depend somewhat on the subjects taken previously. In most cases it may be completed in two years of residence by taking some extra work.

RIPON COLLEGE AND THE STATE UNIVERSITY

An agreement has been entered into with the University of Wisconsin whereby both institutions have the same entrance requirements and the same list of accredited schools. Students who migrate from either institution to the other will be given the rank of sophomores or juniors, if they change at the end of the first or second year of their work. It is not deemed advisable by either institution for students to migrate at the end of the junior year, and where such cases occur they will be dealt with on their individual merits. Students who complete our Mathematical-Physical group of studies can enter the engineering department of the University of Wisconsin and complete a course in two years. Those who enter before graduation will be given the same credits as students who transfer from the College of Arts of the State University to its engineering department.

THE COLLEGE REQUIREMENTS FOR GRADUATION

The requirement for graduation is one hundred and twenty semester hours of credit. The semester hour means one hour recitation or lecture or one two-hour laboratory period per week for one semester. A course which meets four hours per week for one semester gives four hours of credit. Regular work is fifteen hours per week.

The courses of study are arranged in groups. Each group is made up of (a) certain fundamental subjects required of

all students, (b) the major subject, and (c) free electives to complete the number of credits.

(a) The subjects required of all students are the following: English, course 1; foreign language, two courses of one year each; (students who have had less than four years of foreign languages for entrance will be required to complete an additional year course in the College); a year course in three of the four following subjects — Mathematics, Science, History, or Philosophy.

(b) Not later than the beginning of the Junior year the candidate for a degree selects a department in which to do special work. The professor in charge of this department will act as the student's adviser and will have authority with the Registrar to require the completion of courses in this department and in related subjects to the amount of thirty-six hours and a thesis. This constitutes the student's major subject. The subject thus chosen, together with the subjects required of all students, insures the logical character of the group and requires on the part of the student sustained effort and definite result in one main direction.

(c) About thirty-six hours of the one hundred and twenty are left to the free choice of the student. The degree of Bachelor of Arts is conferred upon those who complete the above requirements.

REGISTRATION

The registration days for the first semester of the year 1908-9 are Tuesday and Wednesday, September 15 and 16.

Regular work for a freshman is four courses selected from the following list:—

- English 1, required.
- Latin A or 1-2.
- Greek A or 1-2
- French 1-2.
- German A or 1-2.
- History 6-8.
- Mathematics 1-2
- Biology 1-2.
- Chemistry 1-2.

PREPARATION FOR THE PROFESSIONAL SCHOOLS

The College purposes to lay the strong foundations upon which the specialist may afterward build. The best professional schools are now requiring a liberal education for entrance, and the college diploma, representing such liberal or collegiate education, is expected. Within the range of the regular college studies it is possible to make a selection that will best prepare the student for the technical school. Special bulletins outlining such courses may be obtained on request. Suggestive groups of courses for students who are preparing for special work, follow:

PHILOSOPHY GROUP

Freshman Year

First Semester.

English four hours.
Latin, four hours.
Greek, four hours.
Biology, four hours.

Second Semester.

English, four hours.
Latin, four hours.
Greek, four hours.
Physiology and Hygiene, four hours.

Sophomore Year

Philosophy (1 or 2), four hours.
Greek Testament, two hours.
German, four hours.
Psychology, three hours.
English Composition (2 or 4), three hours.

Bible (2 or 3), three hours.
Greek Testament, two hours.
German, four hours.
Greek Art, two hours.
English Composition (2 or 4), three hours.

Junior Year

Philosophy (2 or 1), four hours.
Religious Education (9 or 10), three hours.
History, four hours.
Sociology (2 or 3), two hours.
Bible (1), two hours.

Philosophy (3 or 4), four hours.
Bible (3 or 2), three hours.
History, four hours.
Ancient Philosophy, three hours.

Senior Year

Education (5 or 6), four hours.
Religious Education (10 or 9), three hours.
English (4), four hours.
Roman Archaeology, one hour.

Education (7 or 8), four hours.
Philosophy (4 or 3), four hours.
Sociology (1), three hours.
History (12), four hours.

This group presupposes two years each of preparation in Latin and German. Minor changes may be made on consultation to accommodate special cases. Students taking

substantially this course with standing sufficiently high to secure faculty recommendation will be enabled to enter the middle class in Yale Divinity School, and to become candidates for the degree of Bachelor of Divinity in two years.

CHEMISTRY-BIOLOGY GROUP

Preparatory to the Study of Medicine.

Freshman Year

First Semester.

English, four hours.
 French or German, four hours.
 General Chemistry, four hours.
 Mathematics, four hours.

Second Semester.

English, four hours.
 French or German, four hours.
 General Chemistry, four hours.
 Mathematics, four hours.

Sophomore Year

French or German, four hours.
 General Biology, four hours.
 General Physics, five hours.

Optional.

1. History.
2. English.

French or German, four hours.
 Biology of Vertebrates, four hours.
 Physics, five hours.

Optional.

1. History.
2. English.

Junior Year

Greek or Latin, four hours.
 Chemistry, four hours.
 Histology, five hours.

Optional.

1. History.
2. Psychology.
3. English.

Greek or Latin, four hours.
 Chemistry, four hours.
 Embryology, five hours.

Optional.

1. Economics.
2. English.

Senior Year

Chemistry, four hours.
 Thesis.
 Physiology, three hours.
 German or French, three hours.

Optional.

1. Elements of Sociology.
2. Greek Literature in English.
3. Philosophy.
4. English.
5. Greek or Latin.

Chemistry, four hours.
 Thesis.
 Bacteriology, five hours.
 German or French, three hours.

Optional.

1. Geology or Mineralogy.
2. Philosophy.
3. Economics.
4. Greek or Latin.

HISTORY-ECONOMICS GROUP

Preparatory to the Study of Law

Freshman Year

First Semester.

Ancient History, four hours.
 English, four hours.

Second Semester.

Ancient History, four hours.
 English, four hours.

Foreign Language, four hours.
Mathematics, four hours.

Foreign Language, four hours.
Mathematics, four hours.

Sophomore Year

Mediaeval History, four hours.
English, four hours.
Foreign Language, four hours.
Science, four hours.

Modern History, four hours.
English, four hours.
Foreign Language, four hours.
Science, four hours.

Junior Year

U. S. History, four hours.
Principles of Economics, four hours.
Philosophy, four hours.
Language, four hours.

U. S. Diplomatic History, four hours.
Economic Problems, four hours.
Philosophy, four hours.
Language, four hours.

Senior Year

English History, three hours.
Public Finance, four hours.
Thesis.
Elective, four hours.
Money and Banking, three hours.

English Constitutional History, three hours.
Thesis.
Elective, four hours.

PRE-ENGINEERING GROUP

Freshman Year

First Semester.

English.
French.
Mathematics, 1
Mathematics, 3
Chemistry, 1

Second Semester.

English.
French.
Mathematics, 2
Mathematics, 3
Chemistry, 2

Sophomore Year

German.
Mathematics, 8
Mathematics, 9
Mathematics, 6
Physics, 1

German.
Mathematics, 5
Mathematics, 9
Mathematics, 7
Physics, 2

Junior Year

Mathematics, 11
Mathematics, 10
Surveying, 4
Physics, 3

Mathematics, 11
Mathematics, 10
Mathematics, 12
Physics, 6

Senior Year

Mathematics, 16
Mathematics, 15 (or 14)
Chemistry, 3
Elective.

Mathematics, 16
Mathematics, 13
Chemistry, 4
Elective.

SCHEDULE OF RECITATIONS

First Semester 1908-9

[illegible]

SCHEDULE OF RECITATIONS

Second Semester 1908-9

Eight O'clock	Archaeology 1		T		Th															
	English 6		T		W	Th	F													
	Economics 6		T				F													
	French 6		T			Th	F													
	Greek 2 a	M			W		F													
	Latin 4	M			W	Th														
	Mathematics 2 ab				W															
	Mathematics 2 a		T				F	S	Laboratory hours, 8 to 10 A.	M.										
Nine O'clock	Mathematics 13	M			W	Th	F	Biology 3	M										F	
	Mathematics 11	M			W	Th		Biology 2			W									S
	Sociology 1		T	W		Th		Biology 9		T		Th								
	Biology 5			T		Th		Chemistry 2 a	M										F	
	Composition 4	M			W		F	Chemistry 2b		T		Th								
	English 3 a		T	W		Th	F	Physics 2 a	M			Th								
	French 4		T			Th	F	Physics 2 b		T									F	
	Greek 4		T	W			F													
	Latin 12	M		T	W															
	Mathematics 2 b	M				Th		S												
Ten O'clock	Mathematics 13		T				F													
	Mathematics 16	M		T	W		F													
	Philosophy 3		T	W		Th	F													
	Biology 10		M	T	W		F	Latin A	M	T	W								F	S
	Chemistry 2					Th		Latin 7		T		Th								S
	Chemistry 6		M		W		F	Mathematics 3	M		W									S
Eleven O'clock	German A		M	T	W		F	Mathematics 9		T		Th								S
	Greek A		M	T	W		F	Mathematics 12	M		W								F	
	French 2		M	T	W		F	Physics 2	M		W								F	
								Physics 8		T										
	Biology 5		M		W			History 8	M	T	W	Th								
	Biology 9			T		Th		Latin B	M	T	W	Th	F							
One O'clock	Chemistry 2						F	Latin 2	M	T	W	Th								
	Chemistry 4			T		Th		Mathematics 3	M		W									S
	German 2		M	T	W	Th		Mathematics 5	M	T	W								F	
	German 6			T		Th		Philosophy 11		T		Th	F							
	Greek 8		M		W		F	Physics 4		T		Th	F							
	Bible 5			T		Th														
Two O'clock	English 1 b					Th														
	English 1 a			T			F													
	English 17	M		T			F													
	German 8			T			F													
	History 12	M		T		Th	F													
	Composition 2			T		Th	F													
Three O'clock	Economics 2	M		T		Th	F													
	English 1 a		M			Th														
	German 2		M	T		Th														
	Greek 2	M		T		Th	F													
	History 16			T		Th	F													
	Physics 6			T		Th	F													
Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1 to 3; Saturday, 8 to 12; Mathematics 7, M., F., 1 to 4.	Biology 3			T			F	Education 6	M	T		Th	F							
	Biology 2	M						French 2	M	T		Th	F							
	Chemistry 6		T			Th	F	German 4	M	T		Th	F							
	Chemistry 9	M						Greek 6		T		Th	F							
	English 1 b	M	M	T			F	History 13	M			Th								
	English 7	M				Th		Physics 7	M	T			F							

DESCRIPTION OF COURSES

PSYCHOLOGY

Professor Hughes

An introductory course to the science of Psychology. Outlines with description and explanation of the phenomena of mental life. Some knowledge of Physiological Psychology is gained by the study of the relation between mental processes and nerve function, by the study of the gross anatomy of the nervous system, and by dissection of animal brains. The relation of Psychology to the principal problems of Philosophy, Education and Ethics is studied. Lectures, recitations, and the use of the reference library. Angell and James textbooks.

First semester. Three hours. W., Th., F., 10:00.

PHILOSOPHY AND EDUCATION

Professor Mutch

1. **Method of Nature.** An interpretation of nature and life on the basis furnished by the sciences. This course affords a view point from which to comprehend life, and a foundation for college courses, especially for those in Philosophy and Education. The class-room work is chiefly a free discussion on the basis of broad outside reading.

Open to the three upper classes.

First semester. Four hours. T., W., Th., F., 9:00.

2. **Philosophy of Culture.** Analysis of social, ethical and religious phenomena in their historical development, to discover their tendencies and operative forces, and their limitations. The general purpose of this course is similar to that of 1, with which it alternates.

First semester. Four hours. Omitted in 1908-09.

3. **Types of Modern Thought.** The various schools of philosophy designated as Idealism, Realism, Pragmatism, Monism and others will be studied and illustrated by readings from their leading representatives. The discussions in class will follow as a general guide Calkin's Persistent Problems of Philosophy. Prerequisite, 1 or 2.

Second semester. Four hours. T., W., Th., F., 9:00.

4. **Problems of Philosophy.** Class-room discussions of the problems of Ontology, Cosmology and Epistemology, based on general reading and upon Paulsen's Introduction to Philosophy. Prerequisite 1 or 2. Alternate years with 3.

Second semester. Four hours. Omitted in 1908-9.

5. **Philosophy of Education.** A study of the physical, sociological and psychological foundations and the modern meanings of the science of education, such as is necessary for the understanding of one's own nature, as well as the problems of education. Discussion will follow the general lines of H. H. Horne's text-books.

First semester. Four hours. M., T., Th., F., 3:00.

6. **Secondary Education.** A study of the fundamental principles of high school education, including an analysis of the content and educational values of the studies, the curricula, the aims and processes of teaching in the secondary schools. The text-books of DeGarmo and Hanus will be followed. Prerequisite 5 or 7.

Second semester. Four hours. M., T., Th., F., 3:00.

7. **History of Education.** Ancient and modern educational systems are so studied as to furnish a concrete basis for conclusions on educational questions, and an understanding of the progressive development of educational science and ideals. Monroe's text-books. Alternate years with 5.

First semester. Four hours. Omitted in 1908-9.

8. **Principles of Education.** Ideals and principles of modern education. Science and art of teaching. Not only a course for teachers, but a study of the moral and mental constitution such as will give vitality and meaning to any liberal education. Prerequisite 5 or 7. Alternate years with 6.

Second semester. Four hours. Omitted in 1908-9.

9. **Grading and Curriculum.** The mental states and adaptabilities of the different grades and the matter and methods suited to them. Kinds and values of material needed to supplement the general curriculum on the moral and religious side. Practical work in the selection and preparation of such material for public school and church school use. Lectures, readings and seminary work.

First semester. Three hours. T., Th., F., 11:00.

10. **Religious Education.** Psychology of religion, institutions, principles and methods involved in religious and moral education. Material available for broadening the culture of the higher life, and the organization necessary for realizing its best ideals. Alternate years with 9.

First semester. Three hours. Omitted in 1908-9.

11. **Teaching of Jesus.** A study of the content of the gospel message in its great central themes and its details, and in its contemporary and present-day applications. An important feature of this course is a pedagogical study of the discourses of Jesus for their illustration of the best principles and the methods for all teachers.

Second semester. Three hours. T., Th., F., 11:00.

12. **Hebrew History-Prophets.** A study of the Former Prophets from a religious, biographical and literary standpoint. A detailed study of the Books of Samuel following Mutch's text-book, Samuel, Saul and David. Alternate years with 11.

Second semester. Three hours. Omitted in 1908-9.

THE BIBLE AND RELIGIOUS EDUCATION

In view of the deepening interest in Religious Education, it is fitting that a College like Ripon should lead in placing the movement on a secure and scientific foundation. It should graduate men and women who are competent to do constructive work in religious training. The subject is a vital one in its relation to Philosophy and Education, and takes the same rank with them. In fact, it gives shape and unity to this whole group of subjects.

Two courses by Dr. Mutch are devoted to the psychology of religion, the scope, ideals, principles and methods of Religious Education. Professor Erickson gives a year course in New Testament Greek. Professor Marston offers a course of sixteen lectures on Jewish Institutions in the time of Christ. Professor Taintor's course in the Bible as Literature is open to all students who have had freshman English. These courses and a ten-days' teacher-training institute just after Commencement afford superior facilities for Christian people, teachers and ministers as well as students, to fit them-

selves to engage in this work, in which skill is now so much in demand and so hard to find.

Professor Taintor

1. **The Bible as Literature.** This course will treat the Bible entirely from the standpoint of literature. Its purpose will be to deal with some of the literary masterpieces of the Bible in the same way that other literature is dealt with.

First semester. Two hours. M., Th., 3:00.

Professor Mutch

2. **Teaching of Jesus.** A study of the content of the gospel message in its great central themes and its details, and in its contemporary and present-day applications. An important feature of this course is a pedagogical study of the discourses of Jesus for their illustration of the best principles and methods for all teachers.

Second semester. Three hours. T., Th., F., 11:00.

3. **The Hebrew History-Prophets.** A survey of the main divisions of the Old Testament, the canon, and the various types of interpretation, followed by a general view of the "Former Prophets" from a religious, historical, and literary standpoint.

Second semester. Three hours. Omitted in 1908-9.

Professor Marston

4. **Jewish Institutions in the Time of Christ.** A preliminary study of people, state, law, parties, education, to illustrate the principles of Jewish jurisprudence, particularly as they were put into practice by the Sanhedrin. A series of sixteen lectures closing with the trial of Christ from a legal point of view.

Professor Erickson

5. **Greek Testament.** A careful study, text and interpretation, of selected passages in the Greek New Testament. Prerequisite: Greek A.

Through the year. Two hours. T., Th., 1:00.

GREEK

Professor Erickson

A. **Course for Beginners.** A knowledge of an inflected language like Latin or German is assumed. In the direction

of the course due attention is given to the needs of students whose main work will be outside the classics.

Text-books: 'White's First Greek Book, Colson's Reader, Goodwin and White's Anabasis.

A year course. Four hours. M., T., W., F., 10:00.

1. **Homer.** This is primarily a reading course. The class will read the first three books of the Iliad and selections from the last eight. Such topics as the following will be considered: The civilization represented by the Homeric poems; their composition and influence on modern as well as ancient literature.

First semester. Four hours. M., T., Th., F., 2:00.

2. **The Persian Invasion.** An historical study from the sources, Herodotus Book VIII and parts of Thucydides and Plutarch. Archaeology Course 1 supplements this course.

Second semester. Three hours. M., T., Th., 2:00.

2a. **Greek Science.** A course for scientific students. The class will read from a variety of authors to illustrate a course of lectures on Greek science. The vocabulary of science will receive special attention. Prerequisite: Course 1.

Second semester. Three hours. M., W., F., 8:00.

3-4. Two or three orations of Lysias, Plato's Apology and Crito, Euripides' Alcestis and Medea, Aristophanes' Acharnians. Conditions of life in Athens at the end of the fifth century. Systematic review of the grammar.

Through the year. Three hours. T., W., F., 9:00.

5-6. This course will be varied from year to year so that a student may continue his reading through four years.

For the year 1908-9 the work will be Demosthenes' On the Crown, Sophocles' Antigone, Aeschylus' Agamemnon.

Through the year. Three hours. T., Th., F., 3:00.

7. **Greek Literature in its Relation to Other European Literatures.** The stress is placed on those forms which have had most influence on subsequent literature especially on English literature. The course includes the Alexandrian and late Greek periods; also some account of the literary criti-

cism and theories of the Greeks. Lectures and assigned readings.

First semester. Three hours. M., W., F., 11:00.

8. **Greek Philosophy and Its Relation to Christianity.** A survey of ancient philosophy and of the more popular religious ideas down to and including contact with Christianity.

Second semester. Three hours. M., W., F., 11:00.

For other related courses, see Archaeology and antiquities, courses 1 and 2 and Bible, course 5.

LATIN

Professor Clark

Professor Erickson

Miss Davis

A. **Course for Beginners.** This course is for college students who wish to begin Latin.

Through the year. Five hours. M., T., W., F., S., 10:00.

First Year

1. **Cicero: De Senectute. Livy. Selections. Prose Work.**

First semester. Four hours. M., T., W., Th., 11:00.

1a. **Topography and Monuments of Ancient Rome.** See Archaeology (3).

First semester. Two hours. Omitted in 1908-9.

1b. **Roman Private Life.** See Archaeology (4). This course will be given in 1908-9 and is recommended for freshmen taking Latin.

First semester. Two hours.

2. **Horace. Odes and Epodes.** Studies in the neighborhood of Rome.

Second semester. Four hours. M., T., W., Th., 11:00.

Second Year

3. **Sallust: Jugurtha. Selections from Martial, Phaedrus, Vergil's Eclogues.**

First semester. Three hours. M., W., Th., 8:00.

4. **Selections from Tacitus, Seneca, and Pliny's Letters. The Captivi of Plautus.**

Second semester. Three hours. M., W., Th., 8:00.

Students of the second year who have not had both the lecture courses 1a and 1b are recommended to take one of

these in connection with the reading course of the first semester.

The following advanced elective courses are open to those who have completed two years' work as outlined above.

5. **Satire.** Selections from Juvenal, Horace and Persius. First semester. Three hours. Omitted in 1908-9.

6. **Comedy.** Selected plays of Plautus and Terence. Rapid reading course.

First semester. Three hours. M., T., Th., 10:00.

7. **Catullus and Tibullus.** Selections.

Second semester. Two hours. T., Th., 10:00.

8. **Roman Letters.** Selected letters of Pliny and Cicero. Second semester. Two hours. Omitted in 1909.

11. **Latin Literature.** The work includes (1) The translation of all of the selections in Smith's Selections from the beginning to Cicero; many selections from the chief authors from Cicero and Gellius; (2) the mastery of the Primer of Latin Literature which will be supplemented by a course of lectures on the History of Latin Literature; (3) the preparation of a paper upon some topic connected with the work. Required of those who major in Latin.

Text-books: Smith's Latin Selections; Wilkin's Primer.

Through the year. Two hours. Omitted in 1908-9.

12. **Teacher's Reading Course.** Caesar, Cicero and Vergil. This course is designed for those students who are planning to teach Latin. The Civil War of Caesar, Selected Orations of Cicero, not commonly read in the high school, and the last six books of Vergil will be read. Special reviews will be made of case and mood constructions, some writing of Latin will be done and discussions held on matters pertaining to the teacher's work. Required if Latin is a major subject.

Through the year. Three hours. M., T., W., 9:00.

CLASSICAL ARCHAEOLOGY AND ANTIQUITIES

Professor Clark

Professor Erickson

The following courses are intended to supplement the work of the Classical department. They are well illustrated by the use of stereopticon and photographs:

1. **General Antiquities of Greece.** A course of lectures on such topics as the land people of Greece, the city of Athens, social conditions in Athens in the fifth century.

Second semester. Two hours. T., Th., 8:00.

2. **Greek Art.** An outline course. The primary object of this course is to familiarize the student with the important remains of ancient art and the principles of classic architecture and sculpture.

Second semester. Two hours. Given in 1909-10.

3. **Topography and Monuments of Ancient Rome.** This course traces the growth of the ancient city from its foundations to the fourth century, treating in detail the following portions: Roman Forum, Capitoline, Palatine and Aventine Hills, Fora of the Empire, Buildings of the Campus Martius, Triumphal Arches, Thermae, Tombs, and other buildings and monuments of the city. One hour each week will be devoted to lectures and examinations. The second hour, 7 p. m., Wednesday, will be used to illustrate the lectures by means of lantern slides. The course is open to all students of the college. No knowledge of Latin is required. Notes will be taken and outside reading required. Required of students whose major is Latin. See Latin 1a.

First semester. Two hours. Omitted in 1908-9.

4. **Roman Private Life.** Lectures are given on the following subjects: The Roman name, the organization of the family, marriage and divorce, children—their nurture, amusements and education; slaves, freedmen, clients, and hospitals; houses—their construction, decoration and furnishing; dress, daily and social life, theatre, circus, amphitheatre and public baths; writing, manuscripts, and libraries, travel, arts and industries; religion and burial. The course is open to all students of the college, and no knowledge of Latin is required. Notes will be taken and outside reading required. See Latin 1b. Required of students whose major is Latin.

First semester. Two hours. M., Th., 3:00.

5. **Roman Archaeology.** A detailed study is made in this course of the ancient monuments in Rome and Pompeii and

R I P O N C O L L E G E

Roman Topography. Students are sent to the classical authors themselves first and then to the modern English writers for fuller descriptions. Many of the inscriptions in the *Corpus*, Vol. VI are read. Maps are drawn. Several hundred photographs and slides are studied. Open only to juniors and seniors. Omitted in 1908-9.

Through the year. Three hours.

In courses 3 and 4 a laboratory fee of \$1.50 is charged.

FRENCH

Professor Harwood

Associate Professor Farr

Miss Wait

First Year

Professor Harwood and Miss Wait

1. and 2. Fraser and Squair's Grammar; reading. French is the language of the class-room.

A year course. Four hours. $\left\{ \begin{array}{l} \text{M., T., W., F., 10:00.} \\ \text{M., T., Th., F., 3:00.} \end{array} \right.$

Second Year

Professor Harwood

3. French history, one hour; comedy and novel with oral and written exercises based on each portion read, two hours; assigned reading with written reports.

First semester. Three hours. T., Th., F., 9:00.

4. Study of "French Daily Life," one hour; history of French literature, one hour; novel and assigned reading, the same as in 3. These two courses are given entirely in French.

Second semester. Three hours. T., Th., F., 9:00.

Third Year

Associate Professor Farr

5. This course is open to those who have completed 3 and 4. A number of the works of modern novelists will be read and reported upon in French. Authors to be studied are: Alphonse Daudet, Anatole France, Pierre Loti, Rene Bazin, Jules Claretie.

First semester. Three hours. T., Th., F., 8:00.

6. To include the study of a dozen or more standard plays of the 17th, 18th, and 19th Centuries, giving special attention to the Classic Period of the French theatre.

Second semester. Three hours. T., Th., F., 8:00.

GERMAN

Professor Harwood

Miss Wait

First Year

Miss Wait

A. This course is especially designed for students who wish to fulfill the College entrance requirement in German.

Thomas' Practical German Grammar. Part One. Reading, dictation, conversation, memorizing of poems.

A year course. Four hours. M., T., W., F., 10:00.

1 and 2. The aim of this course is to increase vocabulary and facility in reading. Composition and recitation in German are required. The work for 1908-1909 is as follows: Schrakamp's "Erzählungen aus der deutschen Geschichte," two hours; reading of plays and short stories with oral and written exercises on the works read, one hour; scientific German, "Allgemeine Meereskunde," one hour.

A year course. Four hours. $\left\{ \begin{array}{l} \text{M., T., Th., F., 2:00.} \\ \text{M., T., W., Th., 11:00.} \end{array} \right.$

Second Year

Professor Harwood

3. Study of the principal novels of Freytag, Heyse, Keller, Riehl, Sudermann, and others; recitation in German; special attention given to idioms; assigned reading with written reports in German.

First semester. Three hours. M., T., Th., 3:00.

4. Study of prominent dramatists of the 19th Century (Freytag, Hauptmann, Sudermann, Wildenbruch, and others); structure of the drama; assigned reading with reports in German.

Second semester. Three hours. M., T., Th., 3:00.

Third Year

5. Schiller. Selected dramas; outside reading with written reports. This course is also conducted entirely in German.

First semester. Two hours. T., Th., 11:00.

6. **Goethe.** Arranged in the same way as 5.
Second semester. Two hours. T., Th., 11:00.

Fourth Year

7. **Teacher's Course.** This course is designed especially for students who are intending to teach. It is open to those who have completed 5 and 6. Thorough review of grammar; rapid review of the history of literature; composition; reading of journalistic German with oral reports; recitations in German. Members of this class will be given opportunity to substitute.

First semester. Two hours. T., F., 1:00.

8. Continuation of 7.

Second semester. Two hours. T., F., 1:00.

ENGLISH

1. **Composition-Literature.** This is a full year course known as English 1, and no credit is given for less than a year's work. The Literature course 1a is given by Professor Taintor. The Composition course 1b is given by Professor Shurtleff. These two courses, 1a and 1b, constitute the required work in English. As prerequisite to all other courses in English they should be taken in the first year.

ENGLISH LITERATURE

Professor Taintor

First Year

1a. **General Survey of English Literature.** This is a full year course, prerequisite to all other courses in Literature. It is the Literature division of the course described elsewhere as English 1.

Text-books: Moody and Lovett's History of English Literature; Manly's Selections of English Poetry.

Through the year. Two hours. M., Th., 2:00. T., F., 1:00.

2. **Chaucer.** This course is designed for those who desire a general acquaintance with Chaucer's poems, and an insight into the life of the fourteenth century. It consists chiefly of a reading of Chaucer, with frequent reports upon

matters pertaining to his times. It requires no previous study of Middle English. Open to those who have had Course I or its equivalent.

First semester. Two hours. Omitted in 1908-9.

The following courses are intended to cover in three years the dramatic writings of Shakespeare.

3. **Studies in the Historical Plays.** This course was given in 1907 and will be given again in 1910.

3a. **Studies in the Tragedies.** This course, given in 1908, will be repeated in 1911.

3b. **Studies in the Comedies.** This course will be given in 1909.

Second semester. Four hours. T., W., Th., F., 9:00.

4. **Milton and His Contemporaries.** Special attention will be given to the study of *Paradise Lost* and *Paradise Regained*. Assigned readings and reports on the life of Milton. A brief study will also be made of John Bunyan.

First semester. Four hours. T., W., Th., F., 9:00.

5. **The Romantic Movement.** Studies in the poems of Wordsworth, Coleridge, Scott, Shelley, Keats. Assigned readings and reports.

First semester. Four hours. T., W., Th., F., 8:00.

6. **Tennyson and Browning.** Studies in the poems of Tennyson and Browning with the purpose of gaining an intelligent appreciation of their merits. It embraces a careful study of individual poems, with outside readings and assigned reports.

Second semester. Four hours. T., W., Th., F., 8:00.

7. **English Prose.** Studies in the prose writings of the best authors from Bacon to Ruskin. Text-book: Pancoast's *Prose Selections*.

Second semester. Two hours. M., Th., 3:00.

8. **The English Drama.** This course takes up some of the dramas other than Shakespeare's. Text-book: Thayer's *Best English Plays*.

Second semester. Two hours. Omitted in 1909.

9. **The Bible as Literature.** This course will treat the Bible entirely from the standpoint of literature. Its purpose

will be to deal with some of the literary masterpieces of the Bible in the same way that other literature is dealt with. Text: Moulton's Modern Reader's Bible.

First semester. Two hours. M., Th., 3:00.

English Research. This course is open upon permission from the instructor to students specializing in English, who have not less than thirty hours of credit in their major studies. There is no class work. A definite subject is assigned to each student for original research under the supervision of the instructor. Blanks filled out to indicate the status of the research at successive stages are to be filed weekly.

From two to four hours credit will be given for the work of a semester.

ENGLISH COMPOSITION

Professor Shurtleff

1b. Freshman English Composition. Prescribed for all freshmen. This course consists of a thorough study of the first principles of composition. Emphasis is laid upon accuracy and skill in the use of words, sentences and paragraphs. The four forms of prose composition, Exposition, Argumentation, Description and Narration, are studied in the second half year. Themes, recitations, conferences.

Text-book: Hammond Lamont's English Composition.

Through the year. Two hours. Th., 1:00 and M., 3:00, T., 3:00, or F., 3:00.

2. English Composition. This course is intended primarily for those who have done good work in English 1b, and who wish for more practice in composition. It deals with the four forms of prose composition, Exposition, Argumentation, Description and Narration. The work is carried on by lectures, themes and conferences.

Text-book: J. H. Gardiner's Forms of Prose Literature.

Through the year. Three hours. T., Th., F., 2:00.

3. English Composition. This course is strongly recommended for those who have passed with a grade below C

in English 1b. The work is adapted to those not very proficient in writing. Themes, lectures and conferences.

Text-book: Woolley's Manual of Composition.

First semester. Two hours. Omitted in 1908-09.

4. Advanced Composition. Intended for those who have some talent for writing. In this course students will be urged to develop power in that form of composition which they most prefer.

Themes, lectures and conferences.

Through the year. Three hours. M., W., F., 9:00.

6. Debating. Not open to freshmen. Practice in brief drawing and in the composition of debates. Each member of the class will thoroughly prepare and take part in two debates during the semester.

First semester. Three hours. M., W., F., 10:00.

7. The Forms of Public Address. Practice in the editorial, the review, the critical essay and the oration.

Text-book: Baker's Principles of Argumentation.

Second semester. Three hours. Omitted in 1908-1909.

13a. Anglo-Saxon. Course 13a requires no previous knowledge of Anglo-Saxon.

Text-book: Bright's Anglo-Saxon Reader.

First semester. Three hours. M., W., F., 11:00.

13b. Anglo-Saxon Literature. Literature in England from the earliest times until the Norman Conquest. Parts of Beowulf will be read in this course, also selections from Caedmon and Cynewulf. Prerequisite: Course 13a.

Second semester. Three hours. Omitted in 1908-9.

14. Middle-English Literature. English Literature from the Norman Conquest to the death of Chaucer (1066-1400). The influence of continental literature upon England in this period, and especially upon Chaucer will be studied. Several and the Green Knight, the Lady of the Fountain, Tristram Mediaeval Romances will be read, among these are Gawain and Iseult, Parsival, The Story of the Grail. These works will be read to be appreciated and enjoyed. A knowledge of English is sufficient for the course.

Second semester. Three hours. Omitted in 1908-9.

15. **Literary History of America** from its beginning to the present time.

Text-book: Wendell and Greenough's History of Literature in America.

First semester. Three hours. M., T., F., 1:00.

16. **Literary History of the Early Eighteenth Century.** The beginning of the novel and of the Periodical Essay. Dryden, Pope, Swift, Addison, Steele and others will be studied.

First semester. Three hours. Omitted in 1908-9.

17. **Literary History of the Second Half of the Eighteenth Century.** Johnson and his friends. Among those studied are Goldsmith, Gray, Collins, Young, Cowper, Burns, Blake.

Second semester. Three hours. M., T., F., 1:00.

HISTORY

Courses 1, 5, 6, 7a and 8 are required of those making History their major. Course I in United States History must precede all other courses in American History. The work will be carried on by means of text-books, lectures, reports and required readings. Oral and written exercises and separate and final examinations are held on both texts and lectures. The minimum requirement of reading, exclusive of the text, is twenty-five pages a week for every unit of credit.

AMERICAN HISTORY

Professor Marston

1. **United States History.** A general survey of the social, economic and political history of the United States. Lecture on the origin and growth of political parties. Not open to freshmen.

Text-book: Epochs of American History.

First semester. Four hours. M. T., Th., F., 1:00.

2. **Westward Expansion.** A study of westward migration, and the social, economic and political aspects of the formation of American commonwealth west of the Allegheny mountains. It embraces a study of the organization of a public land system; communication and transportation; evolution of the American frontier, and the part the West

has played in our national development. First semester. Four hours. M., T., Th., F., 9:00.

4. **Diplomatic History of the United States.** This will be a study of the international relations of the United States from 1775 to the present day, including such topics as the following: Treaties relative to American commercial relations between various countries; foundations of a national foreign system in 1775; committee of foreign relations; embassies to Europe; French alliances; Spanish territorial diplomacy; the purchase of Louisiana; the northeast and northwest boundaries; the fisheries; the Isthmian canal; the Hague conference; lectures on American treaties. Omitted 1908-09.

12. **American Development.** A sociological interpretation of the history of the United States. It will consist of a study of the political or governmental, economic, intellectual and religious interests in their associational process in order that the student may secure as complete an understanding as possible of American development and American problems.

Second semester. Four hours. M., T., Th., F., 1:00.

13. **Seminar in American History.** This course is designed to familiarize the student with the elements of historical method, investigation, criticism and the use of sources. For this part of the work Langlois and Seignobo's "Introduction to the Study of History," is used as a manual. The student will embody the results of his study of method in an assigned topic for investigation, part of which, at least, must be from source material. Open only to seniors.

Through the year. One hour attendance and two hours credit. Th., 3:00.

ASIATIC HISTORY

Professor Marston

11. **Contact between Occident and Orient in the Nineteenth Century.** India, China and Japan will be given particular attention. The chief factors which have gone to make up both the Near and Far Eastern question will be carefully examined with reference to race and religion, the policies of the great powers, as well as the interests and ambitions of the minor states most concerned. The lectures will cover

such topics as: The mental outfit of the Asiatic and his habitual views of life; a comparison of the Asiatic with the western mind; the historic influences of Europe upon Asia, and of Asia upon Europe.

Omitted 1908-9.

EUROPEAN HISTORY

Associate Professor Farr

5. **Ancient History.** A brief outline of Oriental history, and a more particular study of Greece and Rome. Given in 1907-8 and alternate years.

First semester. Four hours.

6. **Mediaeval History.** A general survey of the history of continental Europe from the barbarian invasion to the close of the fifteenth century.

Text-books: Thatcher and Schwill, Europe in the Middle Age; and Adams, Civilization During the Middle Age.

First semester. Four hours. M., T., W., Th., 11:00.

15. **The Renaissance and the Reformation.** To be studied not only as intellectual or religious movements, but also

First semester. Three hours. T., Th., F., 2:00.

with regard to their vast political and social influence. Pre-requisite 6 and 8.

8. **Modern European History.** A general survey extending from the close of the fifteenth century to the present day.

Text-books: Schwill, Modern European History, and Portions of Seignobos' Political History of Europe since 1814.

Second semester. Four hours. M., T., W., Th., 11:00.

14. **France under Richelieu and Louis XIV.** A study of the rise of France to the first place in the councils of Europe, and of its institutions and social conditions during that period, including the elements of weakness which presaged its decline.

Second semester. Three hours. Omitted 1908-9.

7. **English History.** A general survey of the political, social and economic history of England. Terry, A History of England.

First semester. Four hours.

9. **English Constitutional History.** From the earliest time to the present day. The design of the course is to explain the origin and development of the English constitution.

Prerequisite: Course 7. Text-book: Medley, English Constitutional History.

Second semester. Four hours.

16. **Nineteenth Century from 1815 to the Present Day.** This course will include not only strictly European affairs but also the world-wide expansion of the territory and interests of the nations of Europe. Prerequisite 6 and 8.

Second semester. Three hours, T., Th., F., 2:00.

ECONOMICS

Professor Marston

Course 1 is not open to freshmen. It must precede all other courses and is required of those taking their major in history. The work will be carried on by means of text-books, except courses 5 and 6, lectures, discussions, reports and required readings. Oral and written exercises and separate and final examinations are held on both texts and lectures in all courses. The minimum requirement of reading, exclusive of the text-book is twenty-five pages a week for every unit of credit.

1. **The Principles of Economics.** A general survey introductory to all other courses in economics. Its purpose is to acquaint the student with fundamental principles; to open up the field for a more detailed and extensive study, and to offer such rules and principles as are contributed to business success by the science of economics.

Text-book: Felter, Principles of Economics.

First semester. Four hours. M., T., Th., F., 2:00.

1. **The Principles of Public Finance.** A general course embracing (a) Public Expenditures, their nature, classification and relation to public welfare; lectures. (b) Public Revenues, their classification, nature and characteristics. Taxation will receive particular attention. Its nature, principles, sources, limits, incidence and influence, and in the study of its particular forms, as the general property tax,

income, inheritance and business taxes. (c) Public Credit; when and how employed; contraction of public debts, their classification, flotation, conversion, funding and redemption. (d) Financial Administration; the budget, its preparation, form and composition; collection of revenue; war financiering. Text-book: Adams, Finance.

Second semester. Four hours. M., T., Th., F., 2:00.

3. **Economic Problems.** This course embraces a study of labor and capital; free trade and protection; immigration; industrial crises; transportation and railroad rates; the trust problem and municipal ownership. Taussig, Tariff History of the United States, and Adams and Sumner, Labor Problems, will be two of the text-books used.

Omitted in 1908-9.

4. **Money, Credit and Banking.** An examination of value and functions of money; standards of value; currency systems of the world; a review of the positions of the bimetalists and the quantity theorists; systems and coinage of metallic currency; credit, credit documents; paper money, convertible and inconvertible notes; clearing houses; foreign exchanges; banks and banking; modern currency problems; foreign banking systems.

Second semester. Omitted 1908-9.

6. **Economic Seminar.** The course is designed to afford training in economic investigation and practice in the use of sources. Each member of the class is expected to complete some single topic, embodying the results of his special research, and present it in the form of a written thesis for criticism and discussion. The course is opened to a limited number of advanced students. The field from which topics are chosen will vary from year to year. Open only to seniors.

Through the year. One hour attendance and two hours credit. T., 8:00.

SOCIOLOGY

Professor Luehring

1. **Elements of Sociology.** A study of the origin, nature, and development of society. Some of the leading sociological

theories will be considered. Studies will also be made of society in the concrete. Lectures, text-book, and reports.

Second semester. Three hours. T., W., Th., 8:00.

2. **Social Institutions of Organized Christianity.** Contemporaneous Oriental society; institutional work of modern Christianity; and a consideration of the contribution of Christian Missions to social progress. Lectures, assigned readings, reference work.

First semester. Two hours. T., Th., 8:00.

3. **Social Conditions in Rural Communities.** American rural society, its social problems, and organizations for improvement. Lectures, reference work, and assigned readings.

Omitted in 1908-9.

MATHEMATICS*

Professor Paine

Mr. Mergendahl

1. **Algebra.** The first weeks of this course will be given to a review of those topics covered by the college admission requirements in algebra. The remainder of the course will be given to the study of the elementary properties of quadratics equations; geometric series; choice; the elements of determinants and of the general theory of equations.

First semester. Four hours. Section 1. T., F., S., 8:00. Section 2. M., Th., S., 9:00. Sections 1 and 2. W., 8:00.
Mr. Mergendahl

2. **Logarithms and Trigonometry.** This course will cover the elementary theory of the trigonometric functions and the elements of logarithms. Special stress will be laid on practise in computation, the solution of triangles and the reduction of identities.

Second semester. The sections and hours of meeting as in Mathematics 1.

Mr. Mergendahl

3. **Mechanical Drawing.** Use of instruments; geometrical problems; graphical solution of conic sections; projections;

*Unless taken continuously throughout the year, no full course offered by the Department of Mathematics, or any part of such course, can be counted toward a degree.

sections and intersections; developments. Special work will be done in lettering.

Text-book: Anthony's Mechanical Drawing.

Through the year. Four hours. M., W., S., 10:00-12:00.
Mr. Mergendahl

4. **Surveying.** Use of instruments; plane and topographical surveying; topographical drawing and leveling; field practise. This course is open to those only who have obtained a grade of not less than C in Mathematics 2.

First semester. Four hours. T., Th., 1:00-4:00
Mr. Mergendahl

5. **Analytic and Graphic Statics.** Elements of Vector Analysis; force and stress; concurrent forces; composition and resolution of non-concurrent, coplanar forces; equilibrium of coplanar forces; equilibrium of parts of bodies. Stresses in roof trusses; bridge trusses under dead loads and under live loads. Analytic and graphic methods are developed side by side throughout the course. Lectures, problems, conferences.

Second semester. Four hours. M., T., W., F., 11:00.
Professor Paine

6. **Machine Design.** Mechanism as applied to the delineation of gear-teeth, cams and other mechanical motions. This course is open only to those who have had Mathematics 4.

First semester. Four hours. M., F., 1:00-4:00.

Given in alternate years.

Mr. Mergendahl

7. **Descriptive Geometry.** Problems relating to the point, line and plane. The generation and classification of lines and surfaces; planes tangent to surfaces of single and double curvature; intersections, developments and revolutions.

This course is open only to students who have had the first half of Mathematics 3.

Text-book: Anthony and Ashley's Descriptive Geometry.

Second semester. Four hours. M., F., 1:00-4:00.

Given in alternate years.

Mr. Mergendahl

8. **Analytic Geometry.** The point; loci; the straight line; polar co-ordinates; transformation of co-ordinates; the circle; conic sections; tangents; diameters; poles and polars; general equation of the second degree. Lectures, problems and conferences.

Text-book: Ashton's Plane and Solid Analytic Geometry.

First semester. Four hours. M., T., W., F., 11:00.

Professor Paine

9. **Differential and Integral Calculus.** Rates and limits; continuity of functions; special limits; differentiation; derivatives of higher order than the first; mean value theorems; maxima and minima; points of inflection; infinitessimals; partial differentiation; integration; definite integrals; multiple integrals; infinite series; Taylor's theorem; applications to geometry and mechanics. Great stress will be laid on the solution by the students of a large number of problems. Lectures, problems and conferences.

Text-book: Gibson's Treatise on the Calculus.

Through the year. Four hours. T., Th., S., 10:00.

Professor Paine

10. **Kinematics of Machinery.** Offered in alternate years. Omitted in 1908-9. To be given in 1909-10.

Through the year. Four hours.

Mr. Mergendahl

11. **Mechanics.** This course is a continuation of Mathematics 5. Force and the laws of motion. Dynamics of a particle; trajections; friction; central forces; elementary theory of the planetary motions; work and energy; momentum and impulse. Dynamics of a rigid body; motion of systems of particles; D'Alembert's Principle; virtual work; centers of mass; moments of inertia; theory of energy; generalizid co-ordinates. This course will be based on Jean's Theoretical Mechanics, but readings will be assigned in the works of Maurer, Hoskins, Routh and Appell. Lectures, problems and conferences.

Through the year. Four hours. M., W., Th., F., 8:00.

Professor Paine

12. **Thermodynamics.** This course is intended for students who have taken Mathematics 9 and Physics 3. It will consist of a mathematical development of the theory of heat

with applications to heat engines. Lectures, problems, conferences.

Text-book: Peabody's Thermodynamics.

Second semester. Four hours. M., W., F., 10:00.

Professor Paine

13. **Hydromechanics.** Hydrostatics and the flow of water over weirs, and through orifices, pipes and open channels. Lectures, problems and conferences.

Second semester. Four hours. M., Th., 8:00; T., F., 9:00.

Mr. Mergendahl

14. **Methods in Applied Mathematics.** In this course, parts of Mellor's Higher Mathematics for Students of Chemistry and Physics will be read. This will form the basis for an extended drill in some of the physical applications of certain topics in pure mathematics; complex algebra; partial derivatives; line, surface and space integrals; differential equations. Lectures, problems and conferences.

First semester. Four hours. Given in alternate years with Mathematics 15. Omitted in 1908-9.

Professor Paine

15. **Differential Equations.** Integration of differential equations of the first order, of differential equations of higher order than the first and of systems of differential equations; integration of linear differential equations by means of series or definite integrals; integration of partial differential equations and of systems of such equations. Lectures, problems and conferences.

Text-book: Murray's Differential Equations.

First semester. Four hours. M., T., Th., F., 3:00.

Professor Paine

16 **Theory of Harmonic and Potential Functions.** Trigonometric series; Fourier's series; the Newtonian potential function; applications to problems in electrostatics, direct and alternating currents, electrical machinery. Lectures, problems and conferences.

Text-book: Ryan, Norris and Hoxie's Electrical Machinery, Vol. I., Byerley's Fourier's Series and Spherical Harmonics, and B. O. Pierce's Newtonian Potential Function.

Through the year. Four hours. M., T., W., F., 9:00.
Professor Paine

BIOLOGY

Professor Talbert

First Year

1. **General Biology.** This course is introductory to advanced biological courses. It also meets the needs of those who wish to get some knowledge of the general principles of biology without taking an extended course. The living substance, protoplasm, is first examined and its characteristics studied. Then a detailed study is made of an animal, the earthworm, and of a plant, the fern. Emphasis is laid upon the fundamental points of resemblance of all living things, plants and animals. General Biology, Sedgwick and Wilson.

First semester. Four hours. T., F., 3:00. Laboratory, M., F., 8:00-10:00.

2. **General Botany.** A study of the classification of plants, their structures, and their activities. In the laboratory, examples of the principal groups of plants are studied and physiological experiments are performed.

Second semester. Three hours. M., 3:00. Laboratory, W., S., 8:00-10:00.

10. **Physiology and Hygiene.** This course is open, without prerequisites, to all College students. Only enough anatomy is studied to give the necessary foundation for an understanding of the workings of the human body. Much of the time of the course is devoted to questions of personal hygiene and the public health. Lectures, demonstrations, and recitations, with a few laboratory exercises.

Text-book: The Human Mechanism by Hough and Sedgwick.

Second semester. Four hours. M., T., W., F., 10:00.

9. **Germes in the Home.** The molds, yeasts and bacteria which occur in the home. The abundance of these organisms and their influence upon foods, health, etc., make their

study one of general interest. The work of the course is mainly laboratory work which involves but little drawing.

3. Comparative Anatomy of Vertebrates. This course is designed to give an idea of the life history of vertebrates. The frog is taken as a type and a fairly complete study is made of its natural history, anatomy, physiology, and development. Instinct, intelligence, adaptation to environment, etc., are also discussed. This is followed by a comparative study of different types of chordates which is intended to give the student quite comprehensive knowledge of the structure and development of vertebrates in general. Prerequisite: Biology 1. Text-book: Biology of the Frog, Holmes.

Second semester. Four hours. T., F., 3:00. Laboratory, M., F., 8:00-10:00.

Second Year

4. Histology. The student who has completed course 3 on the gross anatomy of animals is prepared to study the microscopic structure of the various tissues. Each student prepares sections, stains, and mounts tissues, and makes drawings from his own preparations and from slides belonging to the department. Prerequisite: 3.

First semester. Four hours. T., 11:00. Laboratory, T., Th., F., 1:00-3:00.

6. Bacteriology. This course is intended to give training in bacteriological technique and to give a knowledge of the principles of bacteriology. The characteristics of a number of typical bacteria are worked out in detail and then the names of unknown species are determined. Experiments are performed illustrating the physiological characteristics of bacteria. Quantitative analyses are made of air, milk, water.

First semester. Five hours. Th., 10:00. Laboratory, M., T., Th., F., 1:00-3:00.

5. Embryology. Work is confined to the embryology of vertebrates, the frog and the chick serving as types. The laboratory is provided with an incubator and each student makes preparations of the different stages of development of the types studied. Prerequisite: 3.

Second semester. Five hours. M., W., 11:00. Laboratory, M., T., Th., 1:00-3:00.

7. **Physiology.** This course is especially valuable to those intending to study medicine. It will also be found helpful by students intending to teach and by those taking courses in psychology. Howell's Text-book of Physiology is used. Demonstrations are given from time to time and laboratory work is done. Prerequisite: 3 or 10.

First semester. Five hours. W., Th., F., 11:00. Laboratory, 8:00-12:00.

8. **Comparative Anatomy of Invertebrates.** The anatomy, and to some extent, the physiology, of invertebrate animals is studied. Dissections and drawings are made of representatives of the most important classes of invertebrates. Prerequisite: General Biology 1.

First semester. Four hours.

CHEMISTRY

Professor Gilman

1. **General Chemistry.** This is a course in elementary, inorganic Chemistry, with Laboratory work. It embraces a study of Fundamental Laws, and the non-metallic elements and their compounds. Descriptive and experimental lectures, recitations, tests, problems. Prerequisite: Elementary Physics.

First semester. Four hours. W., 9:00; Th., 10:00; F., 11:00. Laboratory, M., F., 8:00-10:00, or T., Th., 8:00-10:00.

2. **Qualitative Analysis.** This is a continuation of course 1. A careful investigation of the metallic elements and their compounds is made during the first part of the semester, and the remainder of the time is devoted to Qualitative Analysis. Prerequisite: Chemistry 1.

Second semester. Four hours. Th., 10:00; F., 11:00. Laboratory, M., F., 8:00-10:00, or T., Th., 8:00-10:00.

Second Year

3. **Quantitative Analysis.** Gravimetric and volumetric methods. The determinations of simple compounds and separations of mixed substances. Prerequisite: Chemistry 2.

First semester. Four hours. T., Th., 11:00. Laboratory, T., Th., 1:00-3:00.

4. **Analytical Chemistry.** This is a continuation of course 3. Special applications of volumetric analysis; analysis of alloys, mineral and water analyses. Prerequisite: Chemistry 3.

Second semester. Four hours. T., Th., 11:00. Laboratory, T., Th., 1:00-3:00.

Third Year

7. **Physical Chemistry.** An elementary course based upon Walker's Introduction to Physical Chemistry as a text. The laws of gases, substances in solution, theory of ions, and the principles of electro-chemistry. Recitations and lectures. Prerequisite: Chemistry 4 and Physics 1 and 2.

First semester. Three hours. M., W., F., 10:00.

6. **Organic Chemistry.** A course in general organic chemistry. Lectures, recitations, and laboratory work. The Aliphatic Series with special reference to the more important hydrocarbons and their derivatives. Prerequisite: Chemistry 3.

Second semester. Five hours. M., W., F., 10:00. Laboratory, S., 8:00-12:00.

Fourth Year

5. **Medical and Physiological Chemistry.** A technical course for those who are preparing for the medical profession. This includes the examination of blood, muscular tissue, gastric digestion, testing of milk, and urinary analysis.

Prerequisites: Chemistry 3, and Biology 1, the amount of credit and other details to be arranged by conference with the instructor.

First semester. Five hours. T., Th., F., 3:00. Laboratory, M., F., 1:00-3:00.

8. **Research work,** designed for students who desire to prepare a baccalaureate thesis in Chemistry, or wish to do graduate work. Special subjects, and the amount of credit to be arranged upon consultation with the instructor.

9. **History of Chemistry.** This course is designed for advanced students. During the first semester a study will be made of the history of chemistry, and during the second

semester the historical development of the important theories of chemistry. Prerequisite: Chemistry 3.

Through the year. One hour for each semester. M., 3:00.

10. Advanced Organic Chemistry. The Aromatic Series. Lectures, recitations, and laboratory work. Prerequisite: Chemistry 6.

First semester. Four hours. M., W., 11:00. Laboratory, M., F., 1:00-3:00.

GEOLOGY

Professor Gilman

1. Mineralogy. This course includes Crystallography, blowpipe analysis, and descriptive Mineralogy. The laboratory work consists of a study of the common rock-making minerals with reference to their chemical composition, optical properties and action under the blowpipe.

Prerequisites: Chemistry 1 and 2, and Physics 1 and 2.

First semester. Four hours.

2. General Geology. The object of this course is to make a study of structural and dynamical Geology with special reference to the geology of Wisconsin.

Field work and work on selected themes.

Prerequisites: Chemistry 1 and 2; Biology 1.

Second semester. Four hours.

PHYSICS

Professor Barber

1. Mechanics, Molecular Physics and Heat. This is the first half of a course in General Physics, presented mainly from the experimental standpoint. The purpose is to establish an immediate and vital connection between theory and experiment which shall result in a thorough grasp of principles. A selection has been made therefore of a few fundamental principles which can be most effectively presented in connection with laboratory demonstrations and these are studied thoroughly in class room, and laboratory. The laboratory work is still further made supplementary to the study of the physical principles by the omission of all purely

manipulative exercises and by avoiding needless repetition of experiments which illustrate the same general truth.

The laboratory has been equipped very recently with modern apparatus especially designed to meet the needs of this course, which treats Physics as a science of exact measurement. This apparatus is capable of yielding accurate results in the hands of average students. Furthermore, in nearly all of the exercises, the quantity sought is obtained by two distinct methods and the results compared.

The course aims to give an insight into the real significance of physical things and, by putting the class in touch with the methods and instruments of modern physical investigation, to present the processes of close reasoning by which the present science of Physics has been developed. Prerequisite: Trigonometry.

Text-books: Watson, A Text-book of Physics. Millikan, Mechanics, Molecular Physics and Heat.

First semester. Five hours. M., W., F., 10:00. Laboratory, M., Th., or T., F., 8:00-10:00.

2. Electricity, Magnetism, Sound and Light. A continuation of Course 1.

Text-books: Watson, A Text-book of Physics. Millikan, Electricity, Magnetism, Sound and Light.

Second semester. Five hours.

3. Advanced Course in Heat. (Thermodynamics). The aim of this course will be to give a comprehensive view of the science of heat in its theoretical and experimental aspects, consequently much of the recent work in this subject will be discussed. The laboratory exercises will consist of exact measurements in mercurial and air thermometry, calorimetry, coefficients of expansion, vapor pressures and densities, and freezing and boiling points. Prerequisite: Courses 1 and 2.

Text-books: Edser, Heat for Advanced Students, and Poynting and Thompson, Heat.

First semester. Four hours. Th., 3:00. Laboratory, T., ratory, M., 1:00-3:00.

4. Advanced Course in Light. Geometrical and Physical Optics will be treated in detail. Under the former head,

some of the most important optical instruments will be studied; under the latter the wave theory of light will be developed. The work consists of lectures and recitations, with collateral reading, together with laboratory practice which is designed to follow and illustrate the subject matter of the class room. Prerequisite: Courses 1 and 2. Text-book: Edser, Light for Students.

Second semester. Four hours. T., Th., F., 11:00. Laboratory, M., 1:00-3:00.

5. Advanced Optics. This course aims to be a practical and useful study of optics mainly from the experimental standpoint. Diffraction, dispersion, interference, and polarization will be discussed thoroughly in lecture and recitation, and this discussion followed by accurate measurements in the laboratory. Prerequisite: Courses 1, 2, 4 and calculus.

Text-book: Mann, Manual of Advanced Optics.

First Semester. Four hours. T., Th., F., 11:00. Laboratory, F., 1:00-3:00.

6. Mathematical Theory of Electricity and Magnetism and Electrical Measurements. This course discusses the fundamental principles of the mathematical theory of electricity and magnetism and their more important applications. Particular attention is given to electrostatics, magnetism, electric currents, electrical units and the electro-magnetic theory of light. The laboratory work will consist of several quantitative experiments to illustrate the general methods of measurements in use today in commercial work, in electricity and magnetism. Prerequisite: Courses 1, 2 and Calculus.

Text-books; J. J. Thompson, Elements of Electricity and Magnetism, and Carhart and Patterson, Electrical Measurements.

Second semester. Four hours. T., Th., F., 2:00. Laboratory, M., 1:00-3:00.

7. Theoretical Physics. This course aims to present the fundamental principles of Theoretical Physics and includes the subjects of elasticity, electro-magnetism, electrical oscillations, thermodynamics, and the conduction of heat. Pre-

requisite: Courses 1-6, Differential and Integral Calculus, and Analytical Geometry.

Text-book: Christiansen, Elements of Theoretical Physics.

Through the year. Three hours. M., T., F., 3:00.

8. **Colloquium.** At the weekly meetings the students present before the class for informal discussion reviews of articles appearing in the scientific journals. The course also aims to teach the student the use of a reference library. Each student is required to prepare a bibliography of some one physical subject each semester.

Open only to students who take their major or minor in Physics.

Through the year. One hour. T., 10:00.

PUBLIC SPEAKING

Miss Wyman

Expression. A course in the theory and practice of voice culture and vocal expression, conducted by means of lectures and by individual criticism of each student's work. This course is not credited toward the bachelor's degree.

Through the year. One hour. Th., 2:00.

MUSIC

Professor Møler

The Theory and History of Music, as outlined in the Conservatory Courses is credited as a college elective. The maximum of credit will be six semester hours.

THE COLLEGE AWARDS

DEGREES

Bachelor of Arts. The degree of Bachelor of Arts is conferred by the Board of Trustees, after recommendation by the Faculty, upon those candidates who have completed the collegiate requirements. These are as follows: The student must have a total credit of one hundred and twenty semester hours in the college courses, and he must present an acceptable thesis upon some theme related to the major subject of his course. The time required for the fulfillment of these con-

ditions is usually four years. A student may sometimes shorten the requisite period of residence and study by securing credit for work satisfactorily performed during vacation, under supervision of the Faculty, or at another college. The semester hour means one hour recitation or one two-hour laboratory period per week for one semester.

Master of Arts. The degree of Master of Arts may be conferred upon any graduate of this College, or of any college offering substantially equivalent courses, who shall have completed an approved course of non-professional study sufficient to constitute an additional year of college work, one-half of which, at least, is in a single department or in closely allied departments. This work may be done during one year in residence at the College, or in the case of graduates of this College, during two years of non-residence. Examinations in all work of the approved course are required, and a satisfactory thesis upon some phase of the leading subject of the course must be presented at least one month before the close of the college year. Fees for all special examinations and the usual fee for the diploma are required.

PRIZES AND HONORS

The following prizes are open to competition for the year 1908-9.

The James Prizes. These prizes are paid from the interest of a fund of \$1,500 given by Mrs. John W. James of Boston for the encouragement of English Composition in the College. Each first prize will amount to about \$15; the second prize to \$10.

Prizes will be awarded the two successful contestants in the freshman class, on the basis of clearness of style, excellence in punctuation, in sentence and in paragraph structure, as shown in the manuscripts of the freshman year English exercises.

Two prizes will be awarded in the sophomore class and two in the junior class. In the sophomore class the award will be made for the best essays upon subjects prescribed by the Professors of English. The junior prizes will be given for the best essays on subjects chosen by the writers.

Prizes will not be awarded in any class for inferior work, or if there are less than twelve contestants.

Class of 1891 Prize for Oratory. A silver cup, valued at \$65, upon which shall be inscribed from year to year, between 1906 and 1915 the names of the winners in the home oratorical contest. The cup is to be the property of the College and will be kept on exhibition in some suitable place. The winner in the contest of 1908 was John R. Jones.

Lewis Prize. This was established by Hon. J. T. Lewis of Columbus. The annual income of a fund of \$200 will be awarded to the student who prepares the best set of notes and drawings on the biological work of the freshman year. It will not be granted for inferior work. Awarded in 1907 to Miss Edna Merrell.

Class of 1896 Prize. The income, about \$20, of the Memorial Prize Fund of the class of 1896, will be awarded the successful contestant in a declamatory contest between members of the junior class each year. Awarded in 1907 to Miss May Bumby.

Starr Prizes in Chemistry. For 1907-8 Mr. W. J. Starr offers two prizes of \$15 and \$10 respectively, to be awarded to the students who attain first and second rank in the first year's work in General Chemistry. In 1906-7 the prizes were awarded to William J. Cotton and Harold G. Frost.

Prize Scholarship. A friend of the College has offered a prize to the student in the class of 1909 who shows the greatest proficiency and the best preparation for graduate study in any subject or subjects other than Mathematics or Science. The award will be made on the judgment of the Faculty who will take into account the general scholarship of the student and his thesis. The prize is intended only for those who expect to do graduate work and is sufficient to pay all tuition charges at the University of Wisconsin or the University of Chicago.

Starr Prizes in Physical Training. These prizes are offered by Mr. W. J. Starr of Eau Claire. The contest is open to all men in the College. Athletic ability will not be taken into account. The prizes will be awarded to those making the greatest progress during the year in size, strength and sym-

metry and in development toward the normal standard. The Physical Director, according to the conditions of the prize, will make careful physical examinations, and measurements according to the Sargent method at the beginning of the year and again near the close of the year. The awards will be made on the basis of the results so obtained. The prizes are valued at \$25, \$15, and \$10, for first, second and third rank.

Department Fellowships. The head of each department has the privilege of recommending, for ratification by a vote of the entire Faculty, one advanced student of high standing as Fellow in the department.

University Fellowship. The University of Wisconsin, through its President, has extended to Ripon College an invitation to appoint one of its graduates each year to a Fellowship in the University. The value of this Fellowship is \$225 a year. The fellowship for 1907-8 was awarded to Mr. Edgar Zobel.

The Rhodes Scholarships. In order to keep this well-known bequest before the minds of present or prospective students, it is briefly mentioned here. Circulars of full information can be obtained at the registrar's office. Any male student, who is a citizen of the United States and unmarried, not less than nineteen nor more than twenty-four years of age, and who has reached the end of his sophomore year of study, may be a candidate for one of the Wisconsin scholarships. This insures to the winning contestants among the schools of the State a three-year residence in Oxford University, England.

All competitors must be prepared to take an examination in the following subjects: Arithmetic, the Elements of Algebra or the Elements of Geometry, Greek and Latin Grammar, translation from English into Latin, one Greek and one Latin book from authors such as Caesar, Cicero, Livy, Horace, Virgil, Homer, Xenophon, Plato, Sophocles, Euripides, and Demosthenes.

THE COLLEGE ADMINISTRATION.

GOVERNMENT

Training in self-government is an important factor in education. The College aims to give students the largest opportunity for this training and provides therefore that each dormitory shall have its own house committee, and that board in the College Commons shall be furnished by the Students Co-operative Association. In general the students are held responsible for good order and for the proper use of their time and opportunities. The Faculty, however, is responsible for the government of the College, and through its proper officers is ready to offer counsel, or if need be, to enforce discipline. Each class is assigned to one member of the Faculty as class officer. It is his duty to advise with the students in his class in regard to choice in studies for the year and for the course, to give special attention to their deportment and attendance upon class, and to report progress of the student to the President and, when desired, to the parent or guardian. The various activities of the students are supervised by the proper committees of the Faculty. The President of the College is ex-officio a member of these committees.

THE COLLEGE YEAR

The College year is divided into Semesters. For the coming year, the first semester begins on September 16, 1908; the second on February 4, 1909. Students may enter College at the beginning of the second semester, in any courses beginning at that time.

Besides certain of the usual legal holidays, there are two longer vacations during the College year; one of two weeks at Christmas, and another of one week at Easter. The Christmas vacation for this year begins at 12 M., Wednesday, December 23, and closes at 8 A. M., Tuesday, January 5. The spring vacation for 1909 extends from noon on Wednesday, April 7, to Thursday, April 15, at 8 A. M.

EXAMINATIONS

The student's grade is determined on the basis of the class room work with the added test of examinations at the end

of each semester. For special examinations, or for second examinations to meet special conditions a fee of one dollar, payable at the College office, is charged.

A student who is absent the last recitation period preceding the Christmas or Easter vacation, will not be allowed to take the final examination in the subject missed, but may take it when the next regular examination in the subject is given.

No regular class examinations occur just before Christmas, and no new classes are formed immediately after the Christmas vacation.

RECORDS

The Faculty keep a record of the work done by each student, based upon the character of the recitations, accuracy of the laboratory and research work and regularity of attendance. A permanent record of the entire work of each student is made at the close of each semester.

BUILDINGS AND EQUIPMENT

THE COLLEGE BUILDINGS

Ingram Hall, named after one of the principal donors, Mr. O. H. Ingram of Eau Claire, was completed in 1900. The laboratories and lecture rooms of the different scientific departments are on the first and third floors of this building. The other lecture rooms are on the second floor, and have convenient access to the College Library and Reading Room.

East College was the first building on the campus. Formerly it was used chiefly for dormitory purposes. It has been entirely remodeled and now contains the administration offices, the chapel, the studios and practice rooms of the schools of Music and Art. The Young Women's Christian Association also has its room in the building.

Middle College, now known as Smith Hall, in memory of the late Elisha D. Smith of Menasha, was opened as a dormitory for men in 1903. It is finished throughout in hardwood, is heated by steam and lighted by gas and electricity.

Some of the suites are arranged for two or three students, and consist of a central study room, with a bedroom and wardrobe on each side. Others are arranged for one occupant, and consist of a single study, bedroom and wardrobe.

Besides the student apartments, this hall also contains a reception room, guest room, hospital, and in the basement an excellent bowling alley. The reception room is opposite the main corridor. It is furnished in mission style; has a large, open fireplace, and is supplied with a selection of the current magazines and newspapers. The hospital rooms, furnished by the class of 1902, are grouped in a sunny and sequestered portion of the top floor, away from all noise. They consist of a room for the patient, and one adjoining for the nurse; both rooms are furnished for use in any emergency. The bowling alleys, in the basement, are of the Brunswick-Balke-Collender Co.'s make and are kept in good condition. On the whole there is no more completely equipped dormitory in the state than this one.

West College is now the College Commons. By means of funds provided by the Alumni the first floor has been made into a thoroughly equipped modern dining room. The rooms on the second and third floors are occupied by students.

The Students' Co-operative Association has charge of the Commons and provides a most excellent quality of board at small cost. The dining room is large, finished in oak, is well lighted and has two open fireplaces. There are ample cloak and waiting rooms and the kitchen and serving rooms are models of convenience, making it possible to serve the best meals at the lowest expense. This new Alumni Hall adds much to the comfortable living of the students.

Bartlett Cottage, the Dormitory for women, named in honor of the late Sumner Bartlett of Oshkosh, is situated at the Southwest corner of the campus, just opposite the President's house. It is steam heated throughout and is supplied with hot and cold water. The suites for students consist of a study and bedroom, with the chief pieces of furniture. In addition to these, the building contains a reception room and library, a guest room, and also a kitchen and dining room for occasional use. The reception room is at the

left of the entrance corridor; this leads into the house library containing current periodicals, a piano, and furnishings which add to the homelike atmosphere of the building.

Dawes Cottage. This is a small frame building now used as a dormitory for men.

Society Hall. The Old Chemical Laboratory, vacated when Ingram Hall was built, has been remodeled for other purposes. The north room is used for band practice, for debating societies and other men's clubs, on permission from the college office. The south room is used by the department of Mathematics, and is well equipped for the work of mechanical drawing. The office of the Mathematics department is in this building.

The President's House. The first President of the College, Dr. Merriman, built for himself a large house just south of the college Campus. This house is now the property of the College. It is opened freely during the year to Faculty and Students.

THE COLLEGE EQUIPMENT

The College Library contains about 20,000 volumes, nearly a fourth of which have been added in the past three years. It is made up of the libraries of the different departments. The aim of the College in regard to the library has been to get the best books by the best men. The result is an excellent working library, containing standard editions, critical works, books of reference, bound periodicals, etc. There are also several rare and valuable original copies from the early seventeenth and eighteenth centuries, and a few transcripts and reprints of works of earlier date. The libraries of the Athenian and Ecolian Societies containing about 1,500 volumes are incorporated with the main library.

The library occupies large central rooms on the first and second floors of Ingram Hall. The main reading room is on the second floor, and there is also a reading room on the first floor in connection with the stack room. The library is lighted throughout by both gas and electricity and has perfect daylight exposure.

The library has nearly complete bound sets of standard American and British magazines and receives such leading journals of a professional or technical character, as: American Chemical Journal, American Historical Review, American Journal of Archaeology, American Journal of Physiology, Annals of American Academy of Political and Social Science, Bibliotheca Sacra, Classical Journal, Classical Review, Forum, Independent, Journal of Economics, Modern Philology, Monatshefte, Nation, Nature, North American Review, Popular Science Monthly, Psychological Review, Psychological Bulletin, Revue Historique, Revue des deux Mondes, Science.

In addition to the above library and reading room facilities on the campus, students have access to the city library, now in the new Carnegie building, one block from the campus. The college library and the city library are largely supplementary, the former being strong in works of reference, the latter naturally furnishing books of more general interest. Both are open with a uniform rule to students and citizens.

The library acknowledges valuable additions received during the past year from the following: Frank L. Anders, A. A. Loper, J. D. Davidson, E. P. Lamb, W. A. Lamb, C. H. Weisse, K. K. Kennan, and the Carnegie Library Endowment Fund.

The Department of Biology occupies the east end of the first floor of Ingram Hall. There are two laboratories for Anatomy, one for Bacteriology and one for Physiology. All are equipped with the best and newest apparatus. The vivarium and the injection rooms are in the basement. Adjoining the laboratories is the lecture room, arranged conveniently for the work. Storage and preparation rooms adjoin. The equipment increases yearly, and includes, among the various pieces of apparatus, physiological instruments such as kymographs, capillary electrometers, moist chambers, rheocords, etc.; microscopes, compound and dissecting, camera lucida, microtome, paraffin bath, centrifuge, incubator, etc., besides numerous tanks and aquaria with running water. There have been added in the past year eight new Leitz microscopes of the latest pattern.

These were made especially for Ripon College. The department has also gotten a new rotary microtome for cutting sections for the microscope, and a new electrical clock for timing delicate experiments.

The Department of Physics is located in the west end of the first floor of Ingram Hall, and occupies the following: A laboratory for electricity, magnetism, and mechanics, one for heat, molecular physics, and sound and a dark room, besides an office and lecture room adjoining. The electrical laboratory is furnished with four slate-capped piers brought up from the foundations; these are used for delicate work where all jarring effects must be avoided. A good deal of apparatus has been recently added to the equipment of the laboratories. It includes an American Miliammeter, a ballistic pendulum for measuring elastic and inelastic impacts, a cathetometer of the best type for measuring vertical distances, two ballistic galvanometers, Michelson's interferometer, and a spectrometer with polarizing attachments. The equipment of this laboratory also includes a successful wireless telegraph instrument made by one of the students. The laboratory for heat, molecular physics and light is equally well equipped.

The Department of Chemistry occupies the third floor of Ingram Hall; it has a large lecture room with a stock room in close connection. The stock room is conveniently arranged for chemicals and apparatus. Across the hall are the office library and balance room and the laboratories for general chemistry, qualitative, and quantitative analysis. There are also laboratories for organic chemistry and for private research. All laboratories are supplied with hoods and with individual desks, and each desk is furnished with lockers, gas and water. The lecture room has every facility for demonstration and the department is well equipped with apparatus for all the courses offered.

Central Heating Plant. Last summer there was installed a complete central heating system. The work was done by the A. J. Lindemann and Hoverson Co., Milwaukee, under the personal supervision of the Treasurer of the firm, Mr. John Brennan. What is known as the

vacuum system is used, insuring prompt supply of steam in every room of the eight buildings on the campus. The system results in increased comfort in the buildings, and in a large saving in cost. The steam supply pipes connecting the various buildings with the boilers, are so thoroughly insulated in the conduits, that the waste from radiation is reduced to a minimum. The boilers carry high pressure steam, and there is room in the boiler house for installation of dynamos for the production of light and power. This heating system has been in use throughout the winter, and has proved a success from every point of view.

The Gymnasium. That competent management of athletics with a poor gymnasium, is of greater value than ordinary management with a large and thoroughly equipped gymnasium, is proved by the success in the last few years in Ripon athletics. The success of this management is shown, not only in the winning teams in the various intercollegiate events, but more in the improved health of the individual students.

The Gymnasium is not equal to the other buildings and equipment of the College, and steps are being taken to provide a new Gymnasium in the near future.

The College has dignified athletics by placing the Gymnasium and the training of all teams, under the care of a thoroughly trained specialist, who is a regular member of the college faculty.

Archaeological Collections. The departments of Latin and Greek possess an unusually fine collection of archaeological material. There are several thousand carefully selected photographs and slides, illustrating Greek and Roman history, geography, life and art. Also a small but carefully chosen collection of antiquities of special interest to students of the classics. There are 250 different Roman coins of the most important reigns of the Empire; more than fifty terra cotta lamps illustrating all the types, many of which are figured; Etruscan, Greek and Roman vases dating from 750 B. C. to about 300 B. C.; bronze fibulae, keys, letter stamps, bone stili, spoons, dice, etc.; several fine specimens of glass from Greece and Italy; inscribed amphora handles and numerous

other articles connected with the daily life of the ancient Romans.

The Rowlands Art Memorial Fund. The class of 1901 has provided a special fund, the interest of which is to be used as needed for art decorations. It is a memorial to Owen C. Rowlands, a former member of the class, now deceased.

Mineral Museum. The nucleus of this collection was given to the College by the Rev. Geo. W. Barber. It is named after the donor, who, being an Amherst man, collected many of the specimens under Professor Shepard, of that school. This is supplemented by the New Orleans Collection, obtained through the influence of the Hon. E. D. Holton, of Milwaukee, from the New Orleans Exposition; and by the Armstrong collection of 500 minerals and rocks.

In addition to these collections is the "Educational Series of Rocks," furnished by the United States Government, and several valuable specimens from the mining regions of Wisconsin and Michigan.

Nearly 2,000 specimens in all are listed, coming from various parts of the world. Besides this central museum, there are numerous working sets for use in the classes of mineralogy. These sets include hand specimens for study and tubes of powdered mineral for blow-pipe analysis.

Biological Museum. This contains a collection of invertebrates and vertebrates systematically arranged. The study of the few typical forms of animals studied in the laboratory can thus be supplemented by an investigation of the greater variety of forms to be found in the museum.

An interesting and valuable part of the exhibit is the Congdon collection of birds' eggs. These eggs, representing a large amount of research carried on in Wisconsin and Canada, were collected by Russell T. Congdon, of the class of 1903.

THE COLLEGE LIFE

STUDENT FELLOWSHIP

It is one of the inherent advantages of colleges of the size of Ripon, that students are brought into closer relations with their instructors, and into a nearer sympathy with one another. The College is a social democracy. In class room,

at the commons, in the dormitories and on the campus the equal rights and equal privileges of all students are fully recognized.

SOCIAL LIFE

A wholesome social atmosphere pervades the institution. This not only affects the life of the dormitories, but also promotes the social spirit between student and student and between student and faculty. Class or college functions, through the year, sometimes initiated by the students, sometimes by members of the faculty, make the year as a whole contribute largely to the social enjoyment and culture of the students.

The management of the dormitories is largely in the hands of the students living in them. The occupants of each hall elect annually from among their number a board of control, known as the House Committee, which is responsible for the regulation and direction of all internal affairs in accordance with the will of the majority. In this way, the dormitory becomes a social unit, and differs from a club or fraternity only in that it insures the finest sort of student democracy.

The faculty committee on dormitories acts as an advisory board for the house committees.

RELIGIOUS LIFE

The College is distinctly Christian and regards the development of Christian character as its greatest work. It is unsectarian in its management. On entrance the student names the church of his preference. Lists are sent to the pastors of these churches. Every student is given a definite personal welcome in the church of his choice. The chapel prayer service is held each day and all students are expected to attend. All other services are voluntary. The prayer meeting on Tuesday evening, in the chapel, the Association meetings on Sunday and Thursday afternoons, the Bible study class and the Mission study club are under the management of the Christian Associations. These associations send delegates to the various state and national conferences. At the beginning of the college year members of the associations meet all trains and welcome new students.

STUDENT ORGANIZATIONS

THE YOUNG MEN'S CHRISTIAN ASSOCIATION

The college Y. M. C. A. has a membership comprising between forty and fifty per cent of the total number of young men enrolled in the College. This itself is a valuable testimony to the practical nature and helpful character of the organization. The association also has the active support of the faculty, some of them being members, and many helping in the meetings. Most of our best students recognize that the influence of a society of this kind is necessary for well-balanced development of character, especially during the formative period of their college life. Some special speakers are always secured during the year, and a number of the members are sent to the yearly conference held in June at Lake Geneva.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION

The object of the Young Women's Christian Association is the development of Christian character in its members, and the prosecution of active Christian work, especially among the young women of the institution.

The active membership of the Association consists of women connected with the College, who are members of Christian churches. Any women in the College may become an associate member.

The Association is affiliated with the international organization.

THE ATHLETIC ASSOCIATION

The college Athletic Association is responsible for the maintenance of the various teams, the selection of officers and managers. To secure steadiness and business method in the management, general supervision of all athletic affairs is placed in the hands of a Board of Control, representing the faculty, the alumni and the students. The athletic director is one of the faculty members of this board and all meetings are held in his office.

At the request of the student body, a fee of seventy-five cents per semester, incorporated in the regular incidental fee, is collected for the support of athletics by the college

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Treasurer who is also Treasurer of the Association. A nominal admission fee is charged at all home contests. The receipts from such admission, together with the student fees, support the association's work and insure suitable equipment for all the college teams.

THE ORATORICAL UNION

The Oratorical Union, working under its new constitution, now controls Oratory, Debate, and the "College Days." Two members of the Faculty, together with the President, Vice-President, and the Secretary of the Union, the Editor and Business Manager of the College Days, and the Chairman of the Debate Committee, constitute a Board of Control, which has general direction of all affairs.

COLLEGE DAYS

The College Days, a monthly publication, issued by a board of editors elected annually by the student body, is now in its forty-first year. It aims to record the various phases of campus life. To this end it has published recently several articles by professors and students, either the records of personal experiences or the results of special investigation. It has aimed to keep in touch with sister colleges, has noted the goings and comings of alumni, and has endeavored to record, in lighter vein, the pleasures and pastimes of the students.

THE COLLEGE BAND

This was organized, with seventeen pieces, during the present year. It meets for practice once a week in Athenian Hall.

THE RIPON COLLEGE GLEE AND MANDOLIN CLUBS

The Glee and Mandolin clubs are distinctly student organizations, together numbering thirty men. A trip is made each season at the spring vacation, on which from sixteen to twenty-five cities and towns throughout the state are visited.

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THE STUDENTS' CO-OPERATIVE ASSOCIATION

This Association has charge of the dining room and furnishes board at reasonable cost for all who desire to live at "The Commons."

DEPARTMENT CLUBS

The literary life of the students has recently manifested itself in clubs connected with the different departments. Four such clubs are now in successful operation, the "History Club," the "Science Club," the "German Club," and the "Literature Club."

GENERAL INFORMATION

STUDENT EXPENSES

The charge to the student is but a small part of the cost to the College. The balance of the cost is met by the income of the endowment fund, and by gifts from trustees and other friends of the College.

During the last few years Ripon College has spent a large amount of money in improving the buildings and the furnishings, and in increasing the equipment in the Library and in the Science Laboratories. Of even greater value to the student, is the fact that the Faculty has been increased, and the courses of instruction enriched.

Beginning September, 1908, the amount charged the student will be increased. In view of the value of the courses of instruction, the fine equipment in Laboratories, Library and Lecture Rooms, and the thoroughly modern conveniences in Dormitories and Commons, the increase in cost is small, and the total cost to the student exceptionally low.

Tuition, per half year.....\$10.00

Incidental Fee, per half year..... 20.00

Room Rent

Smith Hall and West College, Dormitories for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per half year\$20.00

Dawes Cottage, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per half year.....	18.00
Bartlett Cottage, Dormitory for women, with steam heat, hot and cold water, furnished rooms, electric lights in each room, per half year	24.00

Board

Board is furnished in the Commons Building. This building is furnished with every convenience in dining room, kitchen and store-rooms, for giving the best board at a reasonable price. The college authorities give special attention to this Commons, audit the books and give general supervision to its affairs, but the actual management is in the hands of the Students Co-operative Dining Association. They elect their own officers. Board is furnished at the lowest possible figure, without profit, and the cost divided equally. During the years 1907 and 1908, board has been furnished at a cost of \$2.75 per week.

There are other boarding clubs and private houses that will furnish board to students at reasonable prices. Lists of these can be had at the Treasurer's office, at the beginning of the year.

All bills for tuition and room rent must be paid at the beginning of each semester. Room rent and laboratory fees cannot be refunded to students who leave dormitories or laboratory classes during the semester. Absence for good reason for more than one-third of a semester will be the only cause for refunding any part of the tuition, or incidental fee.

Dormitory rooms are furnished with all necessary heavy furnishings. Students will bring their own bedding, pillows, rug for the floor and such ornaments as they desire for their rooms. All buildings are heated with steam, furnished with hot and cold water, gas and electricity. Price of room rent in dormitories for men does not include cost of light in the rooms. Price charged in Bartlett Cottage includes electric light in each room.

The total cost for the student varies. The minimum expense will be within the reach of students of limited re-

sources, while others may easily make provision for themselves in accordance with their means.

LABORATORY FEES PER SEMESTER

The cost of material in the various laboratories is charged as follows:

Physics Laboratory, per unit hour.....	\$1.50
Bacteriology and Embryology	7.50
Anatomy, Histology, Advanced Botany.....	3.00
Physiology	1.50
Chemistry, four hour course	6.00
Mineralogy	2.50
Archaeology	1.50
Breakage Deposit in Chemistry	3.00

STUDENT AID

A standing committee of the faculty acts as an employment bureau and is always ready to assist students desiring employment. Faithful worthy students (who are willing to work) need not abandon their course of study for lack of money. Many of the most successful graduates of the College have helped themselves in this way. Advanced students of high standing have frequent opportunity to do private teaching, and citizens of the town are ready to employ students in various capacities.

There are a few scholarships to be granted as a reward of merit to successful students.

Rufus Dodge Fund. The late Rufus Dodge of Beaver Dam left the College a legacy of \$9,000 as a permanent fund to aid young women of limited means in getting an education. The interest of this fund will be annually distributed among such students for this purpose, according to their need.

Permanent Scholarships. Three permanent scholarships have been founded for the benefit of young men of limited means. The income from these is applied annually in payment of the tuition of those whom the President may designate as proper persons to receive it.

The Bennett Scholarship. The sum of \$500 bequeathed by the late Philo S. Bennett of New Haven, Connecticut, provides a fund "to aid poor and deserving boys to obtain an

education. It is understood that the boys receiving the benefit of this fund shall be in honor bound to return to the College the money so advanced as soon as they can conveniently do so after leaving College, and the money so returned shall be used for the aid of other boys, in like manner as it was used at first."

COMMITTEE ON RECOMMENDATIONS

The committee on recommendations renders assistance to graduates seeking employment and to employers. No charge is made for this service and the committee makes special effort to find the position for which the applicant is prepared. School boards and others employing college graduates can depend upon the faithfulness of the recommendations given.

The call for college graduates as teachers is increasing each year. All graduates and friends of the College are asked to co-operate with this committee in notifying it of vacancies.

THE TRAINING OF TEACHERS

The attention of students intending to prepare for teaching in high schools and academies is called, in particular, to the courses offered by the Department of Philosophy and Education, and also to the special Training Courses offered in different departments.

Each year a considerable number of the graduating class seek positions in the high schools of Wisconsin and other states. A large number of Ripon College graduates are now to be found in these schools and invariably they have met with success. This is due to the fact that courses of instruction are given by different members of the Faculty to prepare for this work and to make the usual errors of young teachers less likely to occur.

In the department of Philosophy and Education thorough courses are given in the Principles, History and Philosophy of Education, together with a course in Secondary Education, designed for those who plan to become high school teachers.

In the departments of Latin and German, every student who plans to teach these languages receives special attention in Teachers Training Courses in which reviews are made, and real teaching experience under the guidance of the heads of the departments is secured.

It is the intention of the faculty to extend this work as rapidly as may be, and give the best of normal methods to those who desire them. Fellows are appointed who receive special training in return for such service as correcting papers, in this way getting valuable experience in the actual work of a teacher. The library, too, offers opportunities for the study of library methods.

To students who have taken these training courses assistance is given, during their senior year, that they may secure good positions. The efforts of the Faculty have been remarkably successful in the past and graduates are to be found as teachers or principals in many of the important cities of Wisconsin, Minnesota and other states. While no guarantee can be made, it is safe to say that every student who proves worthy will secure a position. Superintendents and principals, understanding the character of the work done and the method of recommendation, are constantly writing for candidates.

INTERSCHOLASTIC MEET

Each spring there is held at Ripon under the management of the College, an Interscholastic Athletic meet. The participants in this contest are invited from among the various high schools and academies in the central part of the state. To the winning school a silver cup is given as a trophy. When this has been successfully defended for three years it passes into the permanent keeping of the winning school. Special trophies are also given to individual winners.

MANUAL TRAINING

One of the important questions in public school management, is how to interest the average boy, who under present conditions, is apt to end his education before he enters the high school. Our Manual Training department aims to train teachers for the public schools, including the high schools,

who will be competent to aid in the solution of this problem. Students who intend to teach are given thorough training in various forms of metal, leather and wood work; in book binding, type setting, printing, and wood block carving. The purpose is to prepare these teachers so that they can, at slight cost, provide the pupils of their schools with interesting, profitable and educative employment. Mr. George Bicknell is in charge of this department. His plans have been tested in actual operation in public schools.

SPECIAL DEPARTMENTS

CONSERVATORY OF MUSIC

Theo. F. Meier, Director

The work of the Conservatory is complete in scope and systematic in arrangement, and the equipment is in every way adequate to the highest standards of musical instruction. The following are the courses offered:

1. Piano.
2. Violin.
3. Voice Culture.
4. Pipe Organ.
5. Theory and History of Music.

Students may take one or more of these courses, but such work will be credited as either:

- I. A course of General Music Instruction, or
- II. The Artist's course, leading to certificate of graduation.

Course I is open to those wishing to pursue elementary musical study or to prepare for the more advanced courses offered. No previous knowledge of music is required.

No diploma will be given in this course, but those who have done creditable work will be given a certificate of merit.

Course II. Students taking this course are required to pursue the study of harmony and musical history in connection with their main work (Piano, Violin, Voice Culture, or Organ). The time required to finish this course is determined by the needs and the advancement of the individual student. All students must have some ability on the piano to graduate.

Students in Course II are required to meet the conditions prescribed by the College Entrance Requirements; and in connection with the course they are required to take one year of college work, outside of the music department.

NORMAL TRAINING FOR PIANO TEACHERS

The Conservatory also provides a course in Normal Training for advanced piano students who wish to secure a teacher's certificate. This course consists of a series of talks on the art of teaching piano technic and the aesthetics of the piano; it affords at the same time, as a most valuable feature, opportunity to teach and of thus putting into practice the theoretical knowledge gained.

PIANO, VIOLIN AND ORGAN

Professor Meier

The material for study and musical recreation is chosen with the greatest care and with a view to having a good foundation for advanced and artistic work. All the details regarding correct position of the player, and his hands and fingers receive the most careful attention. Great stress is laid upon the kind of practice which will tend to place the technic upon a good, sound basis. To do this the needs and the disposition of the individual student must in every case suggest the material to be used. This includes the best musical literature of the old as well as of the modern school. As the needs of the students vary considerably, it is impossible to prescribe a definite course of work. In all cases a great many works must be studied in order that a graceful, intelligent and expressive style of playing may be acquired.

Ensemble Playing. With the advanced students in piano and violin playing, classes are formed for the study of the standard compositions in Chamber Music. Most valuable experience is gained in playing with others and in interpretation, that can be acquired in no other way. There is no charge for this work.

The Orchestra. The Conservatory Concert Orchestra affords the students an opportunity of becoming familiar with some of the best orchestral works, and most valuable experience in orchestra playing.

THEORY AND HISTORY OF MUSIC

Professor Meier

The course in theory includes Harmony, Counterpoint, Canon and Fugue, Musical Form and Analysis, and Musical History.

VOICE CULTURE AND SINGING

Mrs. Marie Hester

The Italian Method is used. A tone first pure and then powerful and an artistic ease and simplicity of style are among the chief results sought. The instruction is adapted to individual needs, seeking first to instill a clear idea of a good musical tone, and then helping the pupil to overcome his especial difficulties in producing that tone.

The emphasis placed upon a correct mode of breathing and the muscular development of the throat, while serving as the best foundation for vocal proficiency, are valuable also as a means of health. For this reason the course commends itself to all students.

The Vocal exercises used are those of Concone and of Marchesi. Songs and advanced musical training will be presented as the voice reaches the requisite state of development.

SIGHT SINGING AND CHORUS WORK

Opportunity is furnished to practice Sight-singing. As all absolute, or instrumental, music is based on singing, it is expected that all music students will avail themselves of this opportunity.

EXPENSES

The year for the Conservatory pupils is divided by the Christmas and Spring vacations into three terms of fourteen, twelve and ten weeks each. Private lessons are thirty minutes in length. Cost of instruction can be lessened by students joining in classes of three. These classes are given one hour, each student receiving twenty minutes undivided instruction and what he may gain from the remaining forty minutes given the other two students. Students are in most cases advised to take two lessons each week as it insures con-

tinuity in the work and the most satisfactory results. Students taking two private lessons per week are admitted to a class in Harmony without extra charge. Private lessons in Theory are charged at the same rate as other private lessons.

Tuition is payable one-half at the beginning and the remainder at the middle of the term. Two lessons per week are given unless otherwise stated. The fall term of fourteen weeks begins September 16, 1908.

Piano, Voice, Violin and Organ

Private lessons.	\$35.00
Classes of three, each.....	24.00
Private lessons, one per week.....	21.00
Theory and History of Music, one hour lesson per week, in class of six or more, each.....	10.50
Sight-singing in class, and students taking other work in College, each	2.50
To students not taking other work, each.....	6.00
Rental of Instruments:	
Piano rent, six hours per week.....	3.50
Rent of pipe organ, three hours per week.....	4.20

For the Winter and Spring terms of twelve and ten weeks, respectively, the tuition is computed on the basis of the above table.

Good elementary piano instruction for beginners is provided at one-half the above rates. Miss Wilkes, a graduate student of the Conservatory, gives these lessons, and the work may be regarded as preparatory to the course for graduation.

A discount is also allowed on elementary violin instruction.

Non-resident music students are under the same regulations as students in other departments of the College.

New students may enter at any time, without loss, as most of the instruction is private.

No deduction is made for absence from lessons, except in cases of protracted illness, in which case the School will share the loss equally with the pupil.

Students wishing to perform in public must consult the teacher.

All pupils are required to be present at each recital, concert, and lecture, unless excused by the Director.

Students of the Conservatory have use of the college dormitories and of the college commons, where good rooms and board can be secured at moderate cost.

DRAWING AND PAINTING

Public Speaking.

Miss Wyman

Freehand Drawing. Line and shadow in charcoal, pencil, pen and ink, and other mediums, from ornament, casts, still-life and life. Students make application of the principles of perspective in sketching interiors and exteriors, followed by landscape composition and out-of-door sketching.

Design and Composition. Instruction is given in the fundamental principles of constructive, decorate and pictorial art. Students work out original studies in space and line composition, showing proper distribution of light and dark and harmonious schemes of color.

Oil and Water-Color. Color values and harmony are considered through the medium of water-color, using plant-form, still-life and landscape as subjects.

Ceramic Course. The instruction in practical ceramics will cover processes and materials, the practical applications of designs to different forms, the use of mediums and the method of firing.

Expenses of the course in drawing, painting and ceramics:

One lesson per week, each half year.....\$15.00

Two lessons per week, each half year..... 27.00

Public Speaking. The work in public speaking includes physical training, voice training and literary interpretation. The work is adapted to the needs of those who wish to teach, to do public reading or speaking, or who wish merely to increase their ability in reading and speaking. Certificates showing the amount of work done will be given to pupils who complete the work satisfactorily. The tuition, payable in advance, varies from \$20.00 to \$40.00 per semester. Private lessons may be had for \$1.00 each.

DEGREES CONFERRED, JUNE, 1907

With the present address of the Class of 1907

BACHELOR OF ARTS IN COURSE

Barlow, Bessie Ione, Teacher of Biology.....	214 Second Ave. E. Ashland
Crowther, Lillian Edith	Ripon
Dexter, Martha Torrey, Teacher.....	Dunbar
Foote, Lois Emma, Teacher.....	Potosi
Hemp, Bernard Ford, Teacher of History.....	Fort Atkinson
Hill, Annie Houston, High School	Juneau
Lobb, Ida Belle, Teacher of Science.....	Waupaca
Sheldon, Nina Mary, Librarian and Private Secretary.....	Eveleth, Minn.
Williams, Robert, Minister.....	Dodgeville
Wills, Sarah Edith, High School.....	Marshall
Zobel, Edgar Herman, Graduate Student in Chemistry.....	Madison

STUDENTS

S. denotes Smith Hall; B., Bartlett, and W. West Building.

Students whose names are marked with a dagger (†) are now residents of Ripon, the families having moved to Ripon from the towns named because of the College.

GRADUATE STUDENTS

Florence Isabelle Eggleston, 527 Watson St.....Ripon
Grace Gertrude Goodrich, R. F. D. 13.....Ripon

SENIORS

Bessie Bly Barnes, B., 19.....Waupun
Halbert Brooks, S., 208Green Lake
May Tillie Bumby, 601 Newbury St.†.....Juneau
Emily Smith Dexter, 626 Lincoln St.†.....New London
John Smith Dexter, 626 Lincoln St.†.....New London
Frances, Fordice, B. 9.....Eldorado
Blanche Mignon Gibson, B. 11.....Clintonville
Frank Loyal Haigh, S. 206.....Green Lake
Christina Russell Hargrave, 331 State St.....Ripon
Bird Blanche Hitchcock, B. 4.....Red Granite
William Louis Kaiser, S. 103Sheboygan
Earl Leslie King, 613 Newbury St.....Hyderabad, Deccan, India
Winifred La Tourette, B. 20.....Fenton, Mich.
Edna Huntington Merrell, 302 Elm St.....Ripon
Thomas John Owens, 315 Seward St.....Randolph
Newton Page Richardson, Grove and Oak Sts.....Menasha
Leonard George Schneller, S. 205.....Prairie Farm
Robert Griffin Sherwood, 513 Woodside Ave.†.....Utley
Ruth Thompson, 410 Watson St.†.....Rosendale
Gilbert Hambleton Tompkins, Fraternity House.....Wauwatosa
Helen Pennock Toombs, 107 Doty St.....Ripon
Lola Zobel, Blossom St.....Ripon

JUNIORS

Joseph Daniel Brownell, Fraternity House.....Dorchester
Amy Gertrude Clark, 421 Ransom St.....Oshkosh
John N. Davis, Fraternity HouseRandolph
Mabel Hattie Frost, B. 6.....Almond
Bernice Ellen Gibson, B. 11.....Clintonville
Irene Elizabeth Gilkey, B. 7.....Grand Rapids
Ellen May Griffiths, B. 13.....Rosendale
Willard Wellington Hodge, Fraternity House.....Wauwaukee
Helen Hughes, 309 Seward St.....Ripon
Paula Adelaide Jussen, 306 Jackson St.....Ripon
Samuel Theodore Kidder, 302 Elm St.....Springfield, Mo.
Dena Lucinda Knop, 562 Metomen St.....Ripon
Oscar Lichtenberg, 202 State St.....Princeton
Francis Augustus McCray, S. 206.....Green Lake

R I P O N C O L L E G E

Harriet Jennie Morse, 540 Ransom St.†.....	Mt. Pleasant
Edna Rosina Murray, B. 15.....	Ripon
Edward Burnaby Pares, Fraternity House	Wauwatosa
Sadie Malvina Prout, 211½ Main St.....	Ripon
Walter John Reseburg, Fraternity House.....	Kiel
Frances Florence Sanford, 430 Congress St.....	Ripon
William Jabez Sizer, W. 12.....	Fond du Lac
Carey Kelhan Smith, 131 E. Fond du Lac St.....	Ripon
Ernest George Smith, 540 Ransom St.....	Randolph
Jessie Talbot, B. 21.....	Berlin
Jessie Thomas, 120 Thorn St.....	Ripon
Alice Edna Walker, B. 14.....	Markesan
Lee Benjamin West, R. F. D.....	Ripon
Edmund Adolph Yahr, S. 302.....	Princeton
Otto Julius Zobel, 603 Watson St.....	Ripon

SOPHOMORES

Howard Warren Anderson, S. 302.....	Eldorado
Floyd Douglas Bailey, S. 307.....	River Falls
Thomas Hart Barnes, S. 205.....	Appleton
William George Bate, S. 106.....	New London
Allan Walter Bayley, S. 301.....	Waupun
George Canven Bayley, 614 Lincoln St.....	Waupun
Charles Monroe Brace, W. 12	Princeton, Minn.
Emma Louise Brister, B. 10.....	Kenosha
Albert Edward Broker, S. 203.....	Lindsey
Abel Ralph Bugbee, S. 303.....	Wausau
Allen George Burg, 843 Metomen St.....	Calumetville
Emma Grace Burrows, B. 20.....	Fond du Lac
Charles William Bush, 614 Lincoln St.....	Waupun
Walter Glynn Butler, W. 17.....	Montello
Jennie Ethel Chittenden, 430 Woodside Ave.....	Ripon
Arthur Floyd Cook, S. 203.....	Pine River
William Jacobs Cotton, W. 21.....	Elgin, Ill.
Ira Cleveland Davis, Fraternity House.....	Randolph
Pearl Davison, B. 15.....	Milwaukee
Henry Ward Duel, S. 300.....	Fond du Lac
James Eugene Dunlap, 121 Howard St.....	Ripon
Morgan Edwards, S. 300.....	Oshkosh
George Friedrich, S. 300.....	Fond du Lac
Lloyd French, 614 Lincoln St.....	Frankville
Clinton Edgar Fuller, Fraternity House.....	Reedsburg
Hugh William Goggins, S. 200.....	Grand Rapids
Thomas Jackson Hill, S. 108.....	Merrill
Frances Ethlyn Holt, B. 19.....	Columbus
Ralph Arna Holvenstot, 209½ Watson St.....	Marquette
Irmagard Case Jones, B. 4.....	Wautoma
John Edward Jones, 216 Elm St.....	Cambria

R I P O N C O L L E G E

Nicholas, James Kayser, W. 17.....	Green Bay
Clarence Keck, S. 208	Fond du Lac
Almon Lewis King, S. 304.....	Omro
George Lucas Kingsbury, 521 Woodside Ave.....	Ripon
Jeannette Hilda Lamb, 216 Elm St.....	Roberts
Harvey Herman Mader, S. 306.....	Oakfield
Robert Bruce McDonald, S. 200.....	Grand Rapids
Edward Merbach, 628 Ransom St.....	Ripon
Myrle Miller, 424 Ransom St.....	Ripon
Clarence Wilmot Miller, Fraternity House.....	Rosendale
Avis Jeanne Mooney, 223 Scott St.....	Ripon
Frank Theodore Morgan, S. 306.....	Oakfield
James Edgar Moriarty, S. 102.....	Fond du Lac
Lillian Elain Moser, B. 13.....	Fond du Lac
Helen Mutch, 633 Lincoln St.....	Ripon
Carolyn Loraine Nash, 112 Hall St.....	Ripon
Nellie Owens, B. 18	Randolph
Ira Sheldon Parker, S. 108.....	Tomahawk
John Edward Pfeifer, W. 6.....	Green Lake
Clinton Virgil Reed, 441 Eureka St.†.....	Benton, Ill.
Jesse Marion Reed, 441 Eureka St.†.....	Benton, Ill.
Belva Louise Ronne, B. 18.....	Eau Claire
Glen Vivian Rork, W. 20.....	Reedsburg
Guy Warner Runals, 600 Ransom St.....	Ripon
Arthur Ernest Schaar, S. 100.....	Fond du Lac
Rena Belle Shuart, B. 10.....	Pleasant Prairie
Wilbert Smith, S. 201.....	Milwaukee
Roy Nathan Spooner, 514 State St.....	Tomah
Ethel Adele Sutherland, B. 14.....	Fond du Lac
Joseph Ellsworth Sweetland, W. 20.....	Reedsburg
Earle Manton Wakefield, S. 202.....	Tomahawk
George Locke Watson, S. 308.....	Fond du Lac
Orrin Gould Watson, S. 108.....	Marinette
Raymond Lester Wegel, S. 308.....	Fond du Lac
Robert Angus Weir, W. 11.....	Portage
Paul Whelan, S. 303.....	Mondovi
Curtis Lorenzo Yule, 532 Metomen St.....	Osseo
Erna Ida Zobel, 603 Watson St.....	Ripon

FRESHMEN

Edna May Adams, B. 2.....	Green Lake
Charles Peter Bast, W. 9.....	Rockfield
Myrtle Bletsoe, B. 16.....	Prescott
Harry Brooks, W. 6.....	Green Lake
Horace Abram Bumby, 601 Newbury St.†.....	Juneau
Roy Harry Cameron, 627 Lincoln St.....	Oshkosh
Mark Bailey Castelloe, S. 307.....	Prescott
Carrie Mae Clark, 708 Ransom St.....	Ripon

R I P O N C O L L E G E

Edward Jethro Cragoe, 319 Metomen St.....	Oakfield
Laura Cunningham, B. 22.....	New Ulm, Minn.
Royal Edwin Davis, Dawes.....	Randolph
Martha Frances Deegan, 621 Woodside Ave.....	Chicago, Ill.
Paul Lathrop Dexter, 626 Lincoln St.†.....	New London
Paul Manley De Yo, S. 106.....	Eau Claire
Paul Peter Drewes, S. 301.....	Fond du Lac
John Walter Elliott, W. 15.....	Boston, Mass.
Ruth Freeman, Hall St.....	Chicago, Ill.
Edna Hayes Frost, B. 6.....	Almond
Harold Guernsey Frost, W. 3.....	Almond
Leslie Ellery Frost, W. 3.....	Almond
Robert Newcomb Gibson, S. 207.....	Clintonville
Hazel Goodrich, R. F. D. 13.....	Ripon
William Alfred Goold, 209½ Watson St.....	Winneconne
Ruth Frances Gower, B. 3.....	Chippewa Falls
David Ray Harney, W. 16.....	Marshfield
Mabel Haseltine, 303 Blackburn St.....	Ripon
Emmitt Albert Hassett, S. 107	Merrill
Horatio Schuyler Hoard, W. 9.....	Waupun
Lawrence Hodge, Fraternity House	Waunakee
Howell Humphrey, 627 Lincoln St.....	Wild Rose
Robert Humphrey, 627 Lincoln St.....	Wild Rose
Herbert Dutton Hurn, W. 19.....	Oshkosh
Roy Vernon Imrie, Fond du Lac St.....	Roberts
Hayden Anthony Johns, W. 8.....	Randolph
John Richard Jones, W. 9.....	Milwaukee
Martha Elizabeth Kempton, B. 12.....	Markesan
Elmore Charles Lane, S. 302.....	Milwaukee
Harvey Earl Larsen, S. 207.....	Clintonville
Christian Edward Laugesen, W. 18.....	Clintonville
George Henry Lewis, S. 305.....	Brooklyn, N. Y.
Jacob Samuel Lillie, Dawes.....	Sullivan, Ind.
John Nicholas Loshinski, 519 Metomen St.....	Princeton
George Lucas, W. 16.....	Gettysburg, S. D.
Harold Jewett MacNeill, S. 202.....	Mondovi
Cora Maude Manaton, 430 Congress St.....	Green Bay
William Frederick Meggers, S. 207.....	Clintonville
James Archibald Middleton, 207 Scott St.....	Ripon
Ethel Adele Miller, 520 Watson St.....	Ripon
Vine Miller, 624 Ransom St.....	Ripon
Towne Luther Miller, City Bldg.....	Ripon
George Joseph Molitor, S. 301.....	Fond du Lac
Frank George Mooney, 223 Scott St.....	Ripon
Mace Morse, 240 Watson St.....	Princeton
Douglas Lee Murkley, S. 205.....	Berlin
Frank Marcel Nickodem, 209½ Watson St.....	Princeton

R I P O N C O L L E G E

Lillian May O'Callaghan, 407 Thorn St.....	Ripon
Herman Carl Piehl, W. 18.....	Fond du Lac
Guy Arland Russell, 320 Thorn St.....	Ripon
Louise Scribner, B. 9.....	Eldorado
Walter William Simmons, R. F. D. 13.....	Ripon
Edna Spooner, B. 15.....	Wabasha, Minn.
William Starr, Fraternity House.....	Eau Claire
Edward Ray Sullivan, W. 18.....	New London
Luther Witt Swart, 609 Newbury St.....	Plymouth
Mary Buckley Taintor, 616 Ransom St.....	Ripon
Leonard Newton Thompson, W. 21.....	New Richmond
Beryl Beatrice Thompson, B. 22.....	Grand Rapids
John Owen True, W. 11.....	Portage
Roxie Walker, B. 2.....	Mineral Point
William Frederick Werfelman, S. 305.....	Brooklyn, N. Y.
Mary Elizabeth Whelan, B. 3.....	Mondovi
Harold Martin White, S. 201.....	Oshkosh
Frances Elizabeth Wills, 627 Lincoln St.....	Rosendale
Ralph Edward Winchester, W. 15.....	Malden, Mass.
Clarence Mathew Winnemann, S. 107.....	Merrill
Walter James Winnemann, S. 107.....	Merrill
Philip Woods, S. 100.....	Fond du Lac
Alfred Grover Youngberg, 331 State St.....	Rostern Sask, Can.
Gustav Benson Youngberg, 331 State St.....	Rostern Sask, Can.
Louise Zobel, Blossom St.....	Ripon

SPECIAL

Lillian Johnson, 365 Liberty St.....	Beaver Dam
Clara Kelley, 240 Watson St.....	Ripon

SUB-FRESHMEN

George Washington Andrae, Hotel Englebright.....	Stevens Point
Isaac Brown, Dawes	Sullivan, Ind.
Gertrude Clark, 615 Grove St.....	Ripon
William Davies, W. 13	Cambria
Christine Draeger, Watson St.....	Fond du Lac
Clyde Darwin Du Vall, 618 Watson St.....	Ripon
Ernest Emerson, 400 State St.....	Pewaukee
Jesse Irving Etheridge, Dawes.....	Wild Rose
Rowland Evans, W. 13.....	Cambria
Lila Ethel Farnham, B. 7.....	Antigo
Helen Gates, B. 12.....	Milwaukee
Ralph Gould, Dawes	Winona, Minn.
Lillian Hart, B. 16.....	Rubicon
Stewart Wilson Hughes, 309 Seward St.....	Ripon
Margaret Mary Hughes, 309 Seward St.....	Ripon
Edgar Thomas Jones, W. 8.....	Picketts
Gwendolyn Kennan, B. 17.....	Milwaukee
John Miller, 833 Watson St.....	Ripon

John Martin Muggley, W. 19.....	Oshkosh
James Clarence Mutch, 633 Lincoln St.....	Ripon
William Humphrey Owen, Dawes.....	Picketts
Alice Elizabeth Smith, 131 E. Fond du Lac St.....	Ripon
Granger Wheaton Smith, 131 E. Fond du Lac St.....	Ripon
George Galloway Towne, S. 105.....	Waupun
Clinton Iowa Whitney, Dawes	Green Bay
Katherine Edith Williams, B. 19.....	Milwaukee
Jessy Agnes Wilson, 558 Newbury St.†.....	Rush Lake

CONSERVATORY OF MUSIC

Grace Arlene Baldwin	Green Lake
Anna Emma Bals, State St.....	Ellsport, Iowa
Hazel Barlow, Blackburn St.....	Ripon
Nellie Marie Blaisdell	Brandon
Carol Bird Brooks	Green Lake
Harry Higby Brooks, W. 6.....	Green Lake
Mabel Smith Brooks	Green Lake
Ida Emelia Buchholz, 632 State St.....	Ripon
Emma Grace Burrows, B. 20.....	Fond du Lac
Amy Chadbourn, Woodside Ave.....	Ripon
Irene Etta Cowan	Almond
Clara Louise Dillon, 117 Shepard St.....	Ripon
Bessie Gertrude Eggleston, 527 Watson St.....	Ripon
Florence Isabelle Eggleston, 527 Watson St.....	Ripon
Lila Ethel Farnham, B. 7.....	Antigo
Nina Faustman, 521 Ransom St.....	Ripon
Bertha Amelia Foster, R. F. D.....	Ripon
Irene Elizabeth Gilkey, B. 7.....	Grand Rapids
Hugh William Goggins, S. 200.....	Grand Rapids
Lillian Gertrude Hart, B. 16.....	Rubicon
Maud Edith Hawkins	Wild Rose
Matilda Caroline Hess	Brandon
Daisy Avery Hitchcock	Red Granite
Elsie Martha Huth	Ripon
Helemuth Walter Krueger	Princeton
Jeanette Hilda Lamb, 216 Elm St.....	Roberts
Harvey Earl Larsen, S. 207.....	Clintonville
William Frederick Meggers, S. 207.....	Clintonville
Elpha Merbach, 628 Ransom St.....	Ripon
Earl Carl Nielson	Ripon
Viola Katherine Nielson.....	Ripon
Grace Josephine Orthman, B.	Plainfield
Nina Lula Reed, 441 Eureka St.†.....	Benton, Ill.
Jessie E. Ripley, Metomen St.	Oakfield
Leslie Nellie Root	Brandon
Grace Sutherland Simpson, 231 Blossom St.....	Waupun
Ethel Sutherland, B. 14	Fond du Lac

R I P O N C O L L E G E

Louise Thomas, 120 Thorn St.....	Ripon
Beryl Beatrice Thompson, B. 22.....	Grand Rapids
William August Werdin, Prospect St.....	Ripon
Lula Wilhelmine Wild, 516 Liberty St.....	Thompson, N. Dak.
Jennie Adele Wilkie.....	Fond du Lac
Florence Ella Wilkes	Ripon
Katherine Edith Williams, B. 17.....	Milwaukee
Leonard Milton Williams, State St.....	Ripon
Margarite Jeanette Williams, State St.....	Ripon
Jessy Agnes Wilson, 558 Newbury St.....	Ripon
Clara Louise Zuelsdorf, 120 Tygart St.....	Fairwater

ART AND PUBLIC SPEAKING

George Washington Andrae	Stevens Point
Loa Dean Balcom	Rosendale
Mabel Smith Brooks	Green Lake
Katherine Florence Callan, Blackburn St.....	Ripon
Etta Irene Cowan	Almond
Laura Cunningham, B. 22	New Ulm, Minn.
John Smith Dexter, 626 Lincoln St.†.....	New London
Katherine Diedrich, State St.....	Ripon
William Diedrich, State St.....	Ripon
Edna Hayes Frost, B. 6.....	Almond
Ada Cole Genge	Green Lake
May Caroline Greenway	Green Lake
Ellen May Griffiths, B. 13.....	Rosendale
Anna Giddings	Fond du Lac
Emma Amanda Luehring, Woodside Ave.....	Ripon
Lena Marie Meier, E. Fond du Lac St.....	Ripon
Edith Ione Mithchell, R. F. D.	Ripon
Edna May Oelke	Green Lake
Grace Staples	Markesan
Blanche Thompson, 425 Ransom St.....	Ripon
Roxie Walker, B. 2.....	Mineral Point
Orrin Gould Watson, S. 108.....	Marinette
Mary Whelan, B. 3.....	Mondovi

SUMMARY

	Men.	Women.	Total.
Graduates		2	2
College—			
Seniors	10	12	22
Juniors	14	15	29
Sophomores	52	17	69
Freshmen	57	23	80
Special		2	2
	<hr/>	<hr/>	<hr/>
	133	71	204
Academy			27
Music			48
Art			23
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			302
Deducting names listed twice.....			23
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OFFICERS OF STUDENT ORGANIZATIONS

Young Men's Christian Association

Willard W. Hodge, 1909.....	President
Earl L. King, 1908	Vice President
William F. Werfelman, 1911	Recording Secretary
Frank R. Haigh, 1908	Corresponding Secretary
John E. Jones, 1910	Treasurer

Young Women's Christian Association

Ethlyn Holt, 1910	President
Nellie Owens, 1910	Vice President
Ruth Gower, 1911	Secretary
Mabel Frost, 1909	Treasurer
Emma Burrows	Pianist

Athletic Association

J. Dan Brownell, 1909	President
Leonard G. Schneller, 1908	Vice President
Ira S. Parker, 1910.....	Secretary
Albert G. Farr, Esq.	Treasurer
Willard W. Hodge, 1908.....	Foot ball Manager
Joseph E. Swetland, 1910.....	Foot ball Captain
Glen V. Rork, 1910	Basket ball Manager
John N. Davis, 1909.....	Basket ball Captain
George R. Kingsbury, 1910	Track Manager
Clinton E. Fuller, 1910.....	Track Captain

Oratorical Union

Wm. L. Kaiser, 1908.....	President
Edna L. Murray, 1909.....	Vice President
Christina R. Hargrave, 1908.....	Secretary
A. G. Farr, Esq.	Treasurer
Charles M. Brace, 1910.....	Chairman of Debate Committee
O. J. Marston	} Faculty Committee
J. F. Taintor	

College Days Board of Editors

Earl L. King, 1908.....	Editor-in-Chief
Bird B. Hitchcock, 1908.....	Associate
Gilbert H. Tompkin, 1908.....	} Local and Personal
Jessie Talbot, 1909.....	
Bernice E. Gibson, 1909.....	Exchange
Newton P. Richardson, 1908.....	Athletic
Clarence W. Miller, 1909	Business Manager
Glen Rork, 1910	Assistant Business Manager
Clara A. Bloom, 1904	Alumni

R I P O N C O L L E G E

Glee and Mandolin Club

1907—1908.

J. D. Brownell, 1909	President
N. P. Richardson, 1908	Vice President
T. J. Hill, 1910	Secretary
H. J. MacNeill, 1910	Leader
J. N. Davis, 1909	Student Manager
H. Goggins, 1910	Leader Mandolin Club
D. H. Holbrook, 1910	Director
W. A. Sisson	Manager

Ladies Glee Club

Bird B. Hitchcock, 1908	President
Erna Zobel, 1911	Secretary
Maud Hamley	Director

The College Band

Otto Zobel, 1909	Leader
Roy V. Imrie, 1911	Manager
Abel Bugbee, 1910	Secretary and Treasurer

Students Co-operative Association

Bird B. Hitchcock, 1908.....	President
Jessie Talbot, 1909	Stewardess
Morgan Edwards, 1910	Steward
William. Sizer, 1909	Secretary and Treasurer

House Committees

Bartlett Cottage.....	Bessie Barnes, Jessie Talbot, Rena Shuart
Smith Hall.....	George Bicknell, Thomas J. Hill
West College	Nicholas J. Kayser

ALUMNI ASSOCIATIONS

Society of Alumni

Founded in 1873

Paul J. Thompson, '98, 410 Security Bank Building, Minneapolis, Minn.	President
Mrs. W. R. Davis, '01, 6130 Lexington Ave., Chicago, Ill.....	Vice President
Miss Jennie Hall, '01, Ripon	Treasurer
Miss Anna E. Bloom, '04, Neenah.....	Secretary
D. D. Sutherland, '83, Fond du Lac.....	Trustee
David H. Holbrook, '01, Fond du Lac.....	Trustee
Miss Joanna Beebe, '02, New Lisbon.....	Trustee
Miss Clara A. Bloom, '04, Neenah.....	Alumni Editor of College Days

CHICAGO ASSOCIATION

W. A. Merriman, Marquette Building, Chicago.....	President
Rev. Frank N. White, D.D., Union Park Congregational Church, Chicago	Vice President
W. R. Davis, 6130 Lexington Ave., Chicago.....	Secretary
Charles P. Coffin, Evanston, Ill.....	Treasurer

R I P O N C O L L E G E

Northwest Association

Paul J. Thompson, Minneapolis, Minn.....	President
Mrs. A. W. Rankin, Minneapolis, Minn.....	Treasurer
W. B. Geery, St. Paul, Minn.	Secretary

Ripon College Advancement Association

John G. Ingalls, Menominee.....	President
W. B. Geery, St. Paul National Bank, St. Paul, Minn.....	Vice President
Fred W. Rogers, Wells Building, Milwaukee.....	Secretary
Carroll Atwood, Wells Building, Milwaukee.....	Treasurer

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Catalogue 1909

**RIPON
COLLEGE**

RIPON, WISCONSIN

1850-1909

RIPON COLLEGE

CATALOGUE

1908-1909

BULLETIN NO. 33, MARCH, 1909

Issued by Ripon College and entered at the postoffice at Ripon,
Wisconsin, as second class matter

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FORM OF BEQUEST

I give and devise to the Board of Trustees of
Ripon College, Ripon, Wisconsin, the sum of _____
_____ dollars,
payable, etc.

1909

APRIL

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COLLEGE CALENDAR

1909

April	6, Spring Vacation begins 4:15 p. m.....	Tuesday
April	15, Spring Vacation ends 8 a. m.....	Thursday
June	1, Senior Theses due.....	Tuesday
June	13, Baccalaureate Sermon	Sunday
June	14, Annual Meeting of Board of Trustees.....	Monday
June	15, Annual Meeting of the Alumni.....	Tuesday
June	16, Forty-third Annual Commencement.....	Wednesday
June	17, Summer Vacation begins.....	Thursday
September	13, Summer Vacation ends.....	Monday
September	14, Registration for First Semester.....	Tuesday
September	15, Lectures and Recitations begin, 8 a. m....	Wednesday
November	23, Thanksgiving Recess begins 4:15 p. m.....	Tuesday
November	26, Thanksgiving Recess ends 12 m.....	Friday
December	21, Christmas Vacation begins 4:15 p. m.....	Tuesday

1910

January	6, Christmas Vacation ends 8 a. m.....	Thursday
January	19, Registration for Second Semester.....	Wednesday
January	28, First Semester ends	Friday
January	31, Second Semester begins.....	Monday
February	13, Day of Prayer for Colleges.....	Sunday
March	22, Spring Vacation begins 4:15 p. m.....	Tuesday
March	31, Spring Vacation ends 8 a. m.....	Thursday
June	1, Senior Theses due.....	Wednesday
June	12, Baccalaureate Sermon	Sunday
June	13, Annual Meeting of the Board of Trustees....	Monday
June	14, Annual Meeting of the Alumni.....	Tuesday
June	15, Forty-fourth Annual Commencement.....	Wednesday
June	16, Summer Vacation begins.....	Thursday
September	12, Summer Vacation ends.....	Monday
September	13, Registration for the first Semester.....	Tuesday
September	14, Lectures and Recitations begin.....	Wednesday

BOARD OF TRUSTEES

OFFICERS

Richard C. Hughes, President
A. E. Thompson, Vice-President
Samuel M. Pedrick, Secretary
Albert G. Farr, Treasurer

Term Expires 1909

O. H. Ingram, Lumberman and Banker.....Eau Claire
Frederick W. Upham, President of Board of Review,
Cook County, Ill., of Upham and Agler, of Wisconsin
Oak Lumber Co., and of City Fuel Co.....Chicago
W. H. Hatton, Lumberman and Manufacturer.....New London
Albert G. Farr, of N. W. Harris and Co., Bankers, New
York and Boston, and Vice-President of the Harris
Trust and Savings Bank, Chicago.....Chicago
D. D. Sutherland, Attorney-at-Law.....Fond du Lac
Wm. R. Dawes, Cashier Central Trust Co., of Illinois.....Chicago

Term Expires 1910

O. J. Clark, Retired Merchant.....Ripon
George L. Field, President of First National Bank.....Ripon
Frank K. Sanders, Ph.D., D.D., President Washburn Col-
lege.....Topeka, Kans.
O. W. Mosher, President of the Northern Grain Co.New Richmond
O. E. H. Zobel, Retired Merchant.....Ripon
James L. Stone, Cashier German National Bank.....Ripon

Term Expires 1911

William J. Starr, Lumberman and Manufacturer.....Eau Claire
Samuel M. Pedrick, Attorney-at-Law.....Ripon
F. J. Lamb, Attorney-at-Law.....Madison
A. E. Thompson, Attorney-at-Law.....Oshkosh
Fred W. Rogers, Mortgages, Loans and Insurance.....Milwaukee
Rev. L. H. Keller, Pastor Congregational Church.....Fond du Lac

STANDING COMMITTEES

EXECUTIVE COMMITTEE—Officers and Messrs. Clark, Field, Zobel, and Stone.

INSTRUCTION—Messrs. Dawes, Farr, Sanders, Starr, and Stone.

GROUNDS AND BUILDINGS—Messrs. Farr, Zobel, and Thompson.

AUDITING—Messrs. Hatton and Sutherland.

INVESTMENTS—Messrs. Farr, Clark, Field, and Pedrick.

HONORARY DEGREES—Messrs. Ingram and Keller.

The President is a member, ex-officio, of all Committees, except the Auditing Committee.

FACULTY

RICHARD CECIL HUGHES, A.M., D.D.309 Seward St.

President and Professor of Psychology.

A.B., Wooster University, 1884; A.M., Wooster University, 1887; D.D., Wooster University, 1900. Student, Princeton Theological Seminary, 1884-85. Graduate of McCormick Theological Seminary, 1887. Pastor Presbyterian Church, Sidney, Ia., 1887-91. Professor of Psychology, Tabor College, 1891-1901. President of Tabor College, 1897-1901; Ripon College, 1901.

EDWARD HUNTINGTON MERRELL, A.M., D.D., LL.D., 302 Elm St.

Professor Emeritus.

A.B., Oberlin College, 1859; A.M., Oberlin College, 1862; D.D., Lawrence University, 1876; LL.D., Middlebury College, 1893. Professor of Greek, Ripon College, 1863-76; President of Ripon College, 1876-91; Professor of Philosophy, Ripon College, 1876-1906. Professor Emeritus, on the Carnegie Foundation.

CHARLES HENRY CHANDLER, A.M.Smithville, N. H.

Professor Emeritus.

A.B., Dartmouth College, 1868; A.M., Dartmouth College, 1871. Teacher of Science at Kimball Union Academy, Meriden, N. H., 1868-69. Principal of St. Johnsbury (Vt.) Academy, 1869-71. Professor of Mathematics and Physics, Antioch College, 1871-81. Ripon College, 1881-1906. Professor Emeritus, on the Carnegie Foundation.

EDWARD WILLIAM CLARK,* A.M.615 So. Grove St.

Professor of Latin and Roman Archaeology.

A.B., Oberlin College, 1890; A.M., Oberlin College, 1895. Instructor in Latin, Oberlin College, 1891-93. Student in the University of Leipsic, 1893-95. Member of the School of Classical Studies in Rome, 1904-5. Ripon College, 1895.

MARY CORINTHIA HARWOOD, M.L.121 Thorn St.

Professor of French and German.

B.L., Lawrence University, 1888; M.L., Lawrence University, 1891. Student in France and Germany, 1891-93, 1901-2, 1904. Assistant Principal, Traer (Ia.) High School, 1888-90. Instructor in French and German, Grafton Hall, Fond du Lac, Wisconsin, 1893-94. Student in France, 1907. Ripon College, 1895.

FRANK MORTON ERICKSON, A.M.529 Woodside Ave.

Willcox Professor of Classics.

A.B., Wabash College, 1892. A.M., University of Chicago, 1895. Student of Archaeology, Athens, Greece, 1900. Teacher of Greek and Latin, Highland University, 1892-94. Member Graduate School, Harvard University, 1906-7. Ripon College, 1895.

*Resigned December 1908, to take effect June 1909.

RIPON COLLEGE

- OLIVER JONES MARSTON, A.M.234 Elm St.
Professor of History and Political Economy.
A.B., Greer College, 1898; A.M., Greer College, 1899. Graduate Student, Johns Hopkins University, 1898-99. Graduate Student, University of Wisconsin, 1899-1902. Instructor in History, Greer College, 1897-98. Instructor in History, Ripon College, 1902-3; Ripon College, 1903.
- THEODORE FREDERICK MEIER, A.B.East Fond du Lac St.
Professor of Music.
A.B., Mission House College, 1893. Student Chicago Conservatory of Music, 1894-96. Student Stuttgart Royal Conservatoire, 1900-3. Professor of Music, Atlantic (Ia.) Normal School, 1896-98. Central State Normal School, Mt. Pleasant, Mich., 1898-99. Ursinus College, 1899-1900. Ripon College, 1903.
- JESSE FOX TAINTOR, A.B.616 Ransom St.
Professor of English Literature.
A.B., Ripon College, 1873. Andover Theological Seminary, 1875-78. Pastorates in Iowa, 1878-83. Rochester, Minn., 1886-1903. Student Chicago University, 1903, 1905. Ripon College, 1905.
- WILLIAM HARLEY BARBER, B.S.120 Thorn St.
Professor of Physics.
B.S., University of Wisconsin, 1901. Assistant Principal Ripon High School, 1901-4. Principal Ripon High School, 1904-5. United States Department of Commerce and Labor, Bureau of Standards, Washington, D. C., 1905-6. Ripon College, 1906.
- ALBERT FRANKLIN GILMAN, A.M.406 Thorn St.
Professor of Chemistry.
S.B., Amherst College, 1897; A.M., Amherst College, 1901. Teacher of Science, Farmington, Me., 1897-98. Professor of Science, Dow Academy, Franconia, N. H., 1898-99. Professor of Chemistry and Physics, Maryville College, Maryville (Tenn.) 1900-6. Student Harvard University, 1903. Student Chicago University, 1905-6. Ripon College, 1906.
- FREDERICK WILLIAM LUEHRING, Ph.M.521 Woodside Ave.
Professor of Sociology, and Athletic Director.
Ph.B., Northwestern College, 1905. Ph.M., University of Chicago, 1906. Y. M. C. A. Training School for Physical Directors, 1903. Assistant in Physical Training, Northwestern College, 1903-4. Director of Physical Training, University of Chicago Settlement, Chicago, 1905-6. Graduate student University of Chicago, summer quarters 1906,-7-8. Ripon College, 1906.
- GEORGE PORTER PAINE, A.M.533 Thorn St.
Professor of Mathematics.
A.B., Harvard College, 1905. Williams Scholar, Harvard Graduate School, 1905-6. A.M., Harvard, 1907. Ripon College, 1907.

- SHIRLEY FARR, Ph.B.121 Thorn St.
Associate Professor of History and the French Language.
Ph.B., University of Chicago, 1904. Graduate Student, University of Chicago, 1904-5. Student in France, 1901-2 and 1905-6. Ripon College, February, 1907.
- WILLIAM JAMES MUTCH, Ph. D.633 Lincoln St.
Professor of Philosophy and Education.
A.B., University of Wisconsin, 1882. B.D., Yale Divinity School, 1885. Ph.D., Yale University, 1894. Lecturer in Pedagogy, Yale Divinity School, 1900-2. Pastor of Howard Avenue Congregational Church, New Haven, Conn., 1885-1907. Ripon College, 1907.
- HOWARD FRANK SHURTLEFF, A.M.Blossom St.
Professor of English Composition and Rhetoric.
A.B., Harvard, 1905; A.M., Harvard, 1907. Ripon College, 1907.
- GEORGE ADDISON TALBERT, M.S.122 Watertown St.
Professor of Biology.
B.S., Ohio Wesleyan, 1888; M.S., Ohio Wesleyan University; 1891; Graduate student, Johns Hopkins University, 1888-89. Berlin University, 1898-99. Chicago, 1899. Woods Hole Marine Laboratory, summers of 1893-94-95, and Leland Stanford Marine Laboratory the summer of 1897. Teacher of Biology, 1889-1902. Stevens Point Normal School, 1902-07. Ripon College, 1908.
- JOHN MERRILL BRIDGHAM, A.M.
Professor of Classics.
A.B., Bowdoin College, 1904. A.M., Dartmouth College, 1905. Instructor in Latin and Greek at Groton School, 1905-7. Graduate student, Chicago University, 1907-8. Instructor in Classics and Ancient History, Bowdoin College, 1908-9. Ripon College. Professor-elect.
- EMMA SAPHENE WYMAN, B.I.Hotel Englebright
Instructor in Art and Public Speaking.
Graduate of Boston Normal Art School, 1893. B.I., Philadelphia College of Expression, 1894. Graduate Emerson School of Oratory, 1906. Student under Ramsey, Lessoff, Bishoff. Teacher of Art, Platteville (Wis.) State Normal School, 1893-1902. Member Society Arts and Crafts, Boston. Ripon College, 1903.
- TITUS EUGENE MERGENDAHL, B.S.West Building
Instructor in Mathematics.
B.S., Tufts College, 1907. Instructor in Mathematics, Tufts College, 1906-7. Ripon College, 1907.
- FLORENCE CATHERINE HAYS.....Bartlett Cottage
Librarian.
Head of Bartlett Cottage since February 1, 1908.
Wisconsin Library School, 1901-1904. Oshkosh Public Library, 1896-1902. Librarian, Manitowoc, Wis., Public Library, 1902-4. Cataloguer, Manistee, Mich., Public Library, 1905. Ripon College, 1907.

RIPON COLLEGE

EVA FLOY DAVIS, A.B.609 Newberry St.
 Instructor in Latin.
 A.B., Ripon College, 1904. Teacher of Latin and German in High School at Union Grove, Wis., 1905. West Green Bay High School, 1905-7. Ripon College, February 1, 1908.

ROBERT GRIFFIN SHERWOOD, A.B.513 Woodside Ave.
 Instructor in Physics and Mathematics.
 A.B., Ripon College, 1908.

LOLA ZOBEL, A.B.Blossom St.
 Instructor in German.
 A.B., Ripon College, 1908.

ADELE BISHOP MEDLAR.....122 Watertown St.
 Instructor in Vocal Music.
 Chicago Auditorium Conservatory, 1898-1902.
 Vocal Studios: Chicago Auditorium; Woodstock; Harvard; McHenry; Strauss Hall, Elgin, Ill. Student under Herman Walker, William Nelson Burritt, Karleton Hackett, Mary Peck Thompson. Director of Vocal Music, Wisconsin School for Blind, Janesville, Wis., 1905-1908. Ripon College, 1908.

HELEN MUTCH.....633 Lincoln St.
 Assistant Librarian.

COMMITTEES OF THE FACULTY

Chapel Service and Religious Life	Classification and Curriculum
Professors Mutch, Luehring, and Taintor.	Professors Marston, Harwood, Gilman, Mutch, and Paine.
Dormitories	Aid, Recommendations and Scholarships
Professors Barber and Harwood.	Professors, Gilman, Mutch, and Harwood.
Publication	Forensics
Professors Taintor, Shurtleff, and Barber.	Professors Marston and Shurtleff, and Miss Wyman.
Social Life and Student Societies	Athletics
Professors Harwood and Gilman, and Miss Davis.	Professors Luehring, Gilman, and Talbert.
Alumni and Commencement	Library
Professor Taintor, Mr. Mergendahl, and Miss Davis.	Professors Barber and Marston, and Miss Hays.

CLASS OFFICERS

Senior Class	Junior Class
Professor Luehring.	Professor Taintor.
Sophomore Class	Freshman Class
Professor Barber.	Professor Mutch.

OFFICERS

RICHARD C. HUGHES.....	President
EDWARD W. CLARK*.....	Dean
MARY C. HARWOOD.....	Dean of Women
FRANK M. ERICKSON.....	Registrar
EVA FLOY DAVIS.....	Assistant Registrar
TITUS E. MERGENDAHL.....	Secretary of the Faculty
FLORENCE C. HAYS.....	Head of Bartlett Cottage
N. W. FORD.....	Cashier
BESS C. BREWER.....	Secretary to the President

*Resigned. Address correspondence to Prof. F. M. Erickson, Registrar.

HISTORICAL SKETCH

Ripon College, known for ten years after its foundation as Brockway College, was incorporated January 29, 1851. Brockway College grew out of the "Lyceum of Ripon," which was founded on November 23, 1850. The officers of these early organizations were as follows: David P. Mapes, President; Alvan E. Bovay, Secretary; E. L. Northrup, Treasurer. On the resignation of Mr. Mapes, President of the Board, the Reverend J. W. Walcott was elected as his successor. The noble energy which asserted itself in this early foundation can best be understood by quoting its first president, the town-builder, David P. Mapes.

"One of our first and best efforts was to commence a college. When Ripon had not a dozen dwellings, we put up and enclosed the first college building. Our object was to draw around us a class of inhabitants who would have the pride to educate their children, that they might be good for every good work. It required much labor to dispose of the stock of the college, but determined minds had said it should be done, and it was done.

Not less determined or noble was the spirit of the men who laid the corner stone of East Building. "In the first year of the existence of the village a charter for the location of a college was also obtained, on condition that it be located here. Towards the close of the year in a gentle snow storm, two men might have been seen staking out the location for the first college building, amidst the half-suppressed jeers of the faithless. But deep down in the hearts of these two knit-browed men the finger of determination was writing, 'It shall be done.' The novelty, the boldness and utility of the enterprise, the unequalled beauty of the location, all united to attract the sympathy and munificence of the surrounding country, like moistening dew, to cheer on the work. The enterprise succeeded beyond the most sanguine anticipations of its most earnest friends."

Hindered by the financial crash of 1857, and interrupted by the Civil War in 1861, the College continued, with varying degrees of success until 1863. In that year, Dr. William E. Merriman was called to the presidency, and under his vigor-

ous leadership the College entered upon a new era. Until this time only secondary school work had been done. Now regular college classes were organized and the first baccalaureate degrees were conferred at Commencement of 1867.

The history of the College since the resignation of President Merriman in 1876 covers the administration of three presidents: Edward Huntington Merrell, D.D., LL.D., 1876-1891; Rufus Cushman Flagg, D.D., 1892-1901; Richard Cecil Hughes, A.M., D.D., 1901.

From the beginning, the College has been under the control of a Board of Trustees, who have uniformly conducted its affairs wisely, economically and with foresight. From 1855 to 1864 the Board was served by four different secretaries, Mr. J. W. Walcott, Mr. Hiram Freeman, Mr. C. C. Bayley and Mr. J. C. Catlin. In 1864 Storrs Hall, M.D., was made Secretary and served faithfully and efficiently until 1899. At that date Mr. Samuel M. Pedrick was elected to the office, which he still holds.

The Board has been equally fortunate in its Treasurers. Mr. Jehdeiah Bowen was twice Treasurer, between the years 1851 and 1861, and again from 1865 to 1882. The Treasurer from 1861 to 1865 was Mr. Charles F. Hammond. Mr. A. P. Harwood was elected in 1882 and served until 1883. Mr. J. A. Chamberlain served from 1883-84. Mr. Harwood was again elected in 1884 and served until 1886. In that year Mr. Joseph Scribner was made Treasurer and held the office until 1899, when Mr. S. M. Pedrick was elected. Mr. Pedrick was followed in 1905 by Mr. George L. Field, President of the First National Bank of Ripon. From 1876 to 1886 Mr. George C. Duffie as Assistant Treasurer had the care of the books and the responsibilities of Treasurer fell largely upon him. From 1905 to 1907 Mr. Frederick Spratt as Assistant Treasurer gave constant attention to the accounts and to the financial affairs of the College. The present Treasurer, elected in 1907, is Mr. Albert G. Farr, Vice President of the Harris Trust and Savings Bank, Chicago.

The President of the College is ex-officio President of the Board of Trustees. Mr. Albert E. Thompson, of Oshkosh, has been Vice President of the Board since June, 1906.

THE COLLEGE ENTRANCE REQUIREMENTS

GENERAL REQUIREMENTS

All candidates for admission to the College must present satisfactory evidence of good moral character. Those coming from other colleges must present letters of honorable dismissal.

A candidate who offers credentials from a recognized school showing that he has completed the requirements for entrance as given below, will be admitted provisionally, to the freshman class. Those who do not offer credentials will be examined upon the work required for entrance.

Whether a student enters by certificate or by examination, he is not given full standing until he has shown by doing satisfactory work that he is able to pursue a college course with profit. Specific requirements for entrance are given below.

Entrance requirements are expressed in terms of units. The unit is the equivalent of a five-hour course of study of high school grade through one year. Fourteen such units are required for entrance to the freshman class. Of these fourteen units, eight are prescribed, six are, within certain limits, elective.

Prescribed:

English, 2 units; History, 1 unit; Mathematics, 2 units; Science, 1 unit; Foreign Language, 2 units.

Elective:

Six units selected from the following list:

English, 1 or 2 units; Civics or Economics, 1 unit; Mathematics, one-half unit; Science, 1, 2 or 3 units; History, 1, 2 or 3 units; Foreign Language, 1, 2, 3 or 4 units.

Not more than four units in one subject and not less than two units of any one language will be accepted.

The two required units in English include Composition and Literature. In Composition, the student must show ability to write a short essay, correct in spelling, punctuation, grammar, and division into paragraphs. In Literature, the requirement is that set by the Commission of New England Colleges and Secondary Schools, but allows selection from a large number of masterpieces.

The third unit should be the history of English literature; the fourth unit advanced study of masterpieces.

The two required units in Mathematics are Elementary Algebra, one unit; Geometry, plane and solid, one unit. Addi-

tional credit to the amount of one-half unit will be given for advanced algebra.

In History one unit is required; as many as four will be accepted.

In Science one unit is required; as many as four will be accepted. Full units are preferable to half units, but one-half unit of Physiology or Physical Geography may be substituted for one-half unit of Botany.

In Foreign Language, if only two units are offered they must be in one language. Not more than four units in any one language will be accepted, but six units will be accepted if they include either two or three languages.

ENGLISH COURSE GRADUATES

Graduates from the four-year English course of an approved high school will be admitted to provisional freshman standing. The condition will be removed when the student has met the entrance requirement in language. This may be done by extra work amounting to one five-hour course through the year. Special classes will be formed for this work.

ADMISSION BY CERTIFICATE

On the principal's recommendation and certificate showing that the student has successfully completed the courses required for entrance, graduates of any Wisconsin high school, on the accredited list, will be admitted to the freshman class without examination. Information concerning the accredited schools will be furnished on application.

Graduates from schools in other states will be admitted on the same condition as graduates from Wisconsin schools, provided the certificate of the school admits to the recognized colleges of that state.

Certificates should be made out on blanks which will be furnished by the Registrar on application, and which should be returned to him before the opening of the college year.

Certificates issued by the state normal schools or recognized academies of the state will be accepted for the entrance requirements in the subjects covered by such certificates.

SPECIAL STUDENTS

Any person not a candidate for a degree who wishes to pursue special studies will be admitted to colleges classes on presentation of evidence of his ability to carry on such work with profit.

THE HIGH SCHOOLS

The College recognizes the fact that the majority of the high school graduates will not enter college, but it is also mindful of the fact that the majority of those who do enter college must come from High schools. It aims, therefore, so far as possible, by its catalogues and bulletins to keep the schools informed as to its courses and its advantages. It is the purpose of the college so to adapt its courses to the work of the high school that the student who enters college may find no break in the continuity of his studies.

SUB-FRESHMAN CLASSES

For students who have not completed all the college entrance requirements the College makes special provision. Courses are outlined to enable the student to complete the entrance requirements under the direction of capable instructors. These instructors do their work under the supervision of the college professors, and the classes have the use of such parts of the college library and laboratories as they need. In Latin, a three-year course for those who have not had Latin in the High School, is offered. In German, a two-year course is provided.

These courses are intended primarily to enable students who are already admitted to some college classes to complete the requirements. The work is adapted only to the needs of students who are, in some measure, prepared for college work.

NORMAL SCHOOL GRADUATES

Graduates from the state normal schools who were graduated previously from a four-year high school course admitting to the college, will be given the degree of Bachelor of Arts on the completion of the major subjects as described on page 17 and those required subjects for which no equivalent has been taken at the normal school. The time required to complete this course will depend somewhat on the subjects taken previously. By taking some extra work, it may, in most cases, be completed in two years of residence.

RIPON COLLEGE AND THE STATE UNIVERSITY

An agreement has been entered into with the University of Wisconsin whereby both institutions have the same entrance requirements and the same list of accredited schools. Stu-

dents who migrate from either institution to the other will be given the rank of sophomores or juniors, if they change at the end of the first or second year of their work. It is not deemed advisable by either institution for students to migrate at the end of the junior year, but where such cases occur they will be dealt with on their individual merits.

The following statements from the catalogue of the University will indicate the arrangement between the University and the Wisconsin Colleges: "By arrangement with Beloit College, Lawrence University and Ripon College, students of these institutions who have satisfactorily completed the work of the sophomore year will be admitted to junior rank in the College of Letters and Science. In case of migration at an earlier period than the end of the sophomore year, proportional credit will be given. Students who complete two years of work at Beloit, Lawrence and Ripon will be admitted to the College of Engineering of the University of Wisconsin on the same conditions as students who transfer to that college from the College of Letters and Science of the University of Wisconsin."

THE COLLEGE REQUIREMENTS FOR GRADUATION

The requirement for graduation is one hundred and twenty semester hours of credit. The semester hour means one hour recitation or lecture, or one two-hour laboratory period per week for one semester. A course which meets four hours per week for one semester gives four hours of credit. Regular work is fifteen hours per week.

The courses of study are arranged in groups. Each group is made up of (a) certain fundamental subjects required of all students, (b) the major subject, and (c) free electives to complete the number of credits.

(a) The subjects required of all students are the following: English, course 1; Foreign Language, two courses of one year each; a year course in three of the four following subjects—Mathematics, Science, History, or Philosophy. Students who have had less than four years of foreign languages for entrance will be required to complete an additional year course in the College.

(b) Not later than the beginning of the second semester of the Junior year the candidate for a degree is required to select a department in which to do special work. The professor in charge of this department will act as the student's adviser in the selection of courses in this department and in related sub-

jects to the amount of thirty-six hours. This constitutes the student's major subject. The subject thus chosen, together with the subjects required of all students, insures the logical character of the group and requires on the part of the student sustained effort and definite result in one main direction.

A baccalaureate thesis is required.

(c) About thirty-six hours of the one hundred and twenty are left to the free choice of the student.

The degree of Bachelor of Arts is conferred upon those who complete the above requirements.

REGISTRATION

The registration days for the first semester of the year 1909-10 are Monday and Tuesday, September 13 and 14.

Regular work for a freshman is four courses selected from the following list:—

English 1, required.
Latin A or 1-2.
Greek A or 1-2.
French 1-2.
German A or 1-2.
History 5.
Mathematics 1-2.
Biology 1-2 or 3.
Chemistry 1-2.

THE COLLEGE COURSES

To students who desire sound preparation for life, and to those who enter with the purpose of laying the broadest foundations for professional or technical work, the two following groups are recommended as a selection of studies which may, with fewest variations, be adapted to either general or special ends.

GROUP I

The following group is intended specifically for those who are likely to major in the humanities:

Freshman Year

English I.	A Laboratory Science or History
Two Foreign Languages: Latin,	or Mathematics
Greek, French, German	

Sophomore Year

A Laboratory Science or History or Mathematics*	Elective: Philosophy 1
A Foreign Language	A Foreign Language
	English
	Economics

*It is recommended that two of these three courses be completed by the end of the Sophomore year. The third year may be taken as a Sophomore elective.

Junior and Senior Years

A Major Subject (4 to 8 hours) chosen from the following departments:

Philosophy	Economics
Education	Mathematics
A Language	Physical Science
History	

Electives to make 15 hours each semester.

GROUP II

The following group is recommended for those whose major may be in the sciences:

Freshman Year

English.	Elect one:
Elect two:	German
Biology	French
Chemistry	Latin
Algebra—Trigonometry	Scientific Greek

Sophomore Year

Elect two:	Chemistry
Biology	Physics
Elect two, one of which must	be a foreign language:
German	Mathematics
French	English
Latin.	History
Scientific Greek	Economics

Junior and Senior Years

Elect two, one of which must	be indicated as a major:
Biology	Physics
Chemistry	

Electives to make 15 hours each semester:

Psychology	Pedagogy
Scientific Greek	Sociology
Economics	History
Philosophy	Bible
English	Advanced German
Mathematics	Advanced French

RIPON COLLEGE

Suggestive groups of courses for students who are preparing for special work, follow:

PHILOSOPHY GROUP

Freshman Year

First Semester	Second Semester
English	English
Greek	Greek
Latin	Latin
Elective:	Elective:
Biology	Hebrew Prophets
History	Physiology
Greek Art	

Sophomore Year

Method of Nature	German
German	English Composition
English Composition	Sociology
Elective:	
Optionals not taken first year or	
Bible as Literature	Ancient Philosophy
Economics	Economics
Mathematics	Mathematics
Physics	Physics
Psychology	Teaching of Jesus

Junior Year

Philosophy of Culture	Pedagogy
Religious Education	Logic and Metaphysics
Social Institutions	Ancient Philosophy (if not taken before)
Psychology (if not taken before.)	Hebrew Prophets (if not taken before)
Elective:	
Optionals not previously taken or	
French	French
German	German
Greek	Greek
Latin	Latin

Senior Year

Philosophy of Education	Types of Modern Thought
Grading and Curriculum	Teaching of Jesus
Bible as Literature (if not taken before)	American Development

Elective:
Optionals not already taken

This course presupposes two years each of preparation in Latin and German. Minor changes to accommodate special cases may be made on consultation. Students taking substantially this course with standing sufficiently high to secure faculty recommendation will be enabled to enter the middle class in Yale Divinity School, and to become candidates for the degree of Bachelor of Divinity in two years.

GROUP FOR TEACHERS

Freshman Year

First Semester

English
Elect one or two:
Greek
Latin
German
French
Elective:
Biology
Chemistry
History
Mathematics

Second Semester

English
Elect one or two:
Greek
Latin
German
French
Elective:
Biology
Chemistry
History
Mathematics

Sophomore Year

Elect two:
English
German
French
Greek
Latin
Elective:
Bible
Biology
Chemistry
Economics
History
Mathematics
Philosophy
Physics

Elect two:
English
German
French
Greek
Latin
Elective:
Bible
Biology
Chemistry
Economics
History
Mathematics
Physics
Sociology

Junior Year

History of Education
Psychology
Electives, including subject which student expects to teach.

Pedagogy
Logic and Metaphysics

Senior Year

Philosophy of Education
Grading and Curriculum
Electives, including the subject in which the student expects to teach, the Teacher Course in that department being required.

High School Teaching
Types of Modern Thought

CHEMISTRY-BIOLOGY GROUP

Preparatory to the Study of Medicine.

Freshman Year

First Semester

English
French or German
General Chemistry
Mathematics

Second Semester

English
French or German
General Chemistry
Mathematics

Sophomore Year

French or German
General Biology
General Physics
Elective:
History
English

French or German
Biology of Vertebrates
Physics
Elective:
History
English

Junior Year

Greek or Latin
Chemistry
Histology
Elective:
History
Psychology
English

Greek or Latin
Chemistry
Embryology
Elective
English
Economics

Senior Year

Chemistry
Thesis
Physiology
German or French
Elective:
Elements of Sociology
Greek Literature in English
Philosophy
English
Greek or Latin

Chemistry
Thesis
Bacteriology
German or French
Elective:
Geology or Mineralogy
Philosophy
Economics
Greek or Latin

HISTORY-ECONOMICS GROUP

Preparatory to the Study of Law

Freshman Year

First Semester
Ancient History
English
Foreign Language
Mathematics

Second Semester
Ancient History
English
Foreign Language
Mathematics

Sophomore Year

Mediaeval History
English
Foreign Language
Science

Modern History
English
Foreign Language
Science

Junior Year

United States History
Principles of Economics
Philosophy
Language

United States Diplomatic History
Economic Problems
Philosophy
Language

Senior Year

English History
Public Finance
Thesis
Money and Banking
Elective

English Constitutional History
Thesis
Elective

MATHEMATICS-PHYSICS GROUP

Freshman Year

First Semester

Chemistry
French or German
English
Algebra

Second Semester

Chemistry
French or German
English
Trigonometry

Sophomore Year

Differential and Integral Calculus
Analytical Geometry
General Physics
German or French

Differential and Integral Calculus
Statics
General Physics
German or French

Subjects advised

Analytical Chemistry or English Literature

Junior Year

Mechanics
Heat—Light
European History or Economics
Subjects advised
Descriptive Geometry—Differential
Biology, or
Advanced French or German, or
Philosophy I.

Mechanics
Heat—Light
European History or Economics
Subjects advised
Equations, or

Senior Year

Harmonic Analysis
Electricity and Magnetism
Psychology

Philosophy
Harmonic Analysis
Alternating Currents

Elective courses as recommended by the adviser.

PRE-ENGINEERING GROUP

Freshman Year

First Semester

English
French
Algebra
Mechanical Drawing
Chemistry

Second Semester

English
French
Trigonometry
Mechanical Drawing
Chemistry

Sophomore Year

German
Analytic Geometry
Calculus
Descriptive Geometry
Physics

German
Mechanics: Statics
Calculus
Descriptive Geometry
Physics

Junior Year

Mechanics: Dynamics
Theory of Heat (Physics 3)
Surveying
Economics

Mechanics: Dynamics
Thermodynamics (Math. 10)
Differential Equations
Economics

Senior Year

English Composition (4)
Harmonic Analysis
Thesis
History or Economics

English Composition (4)
Harmonic Analysis
Hydromechanics
History or Economics

The Pre-Engineering Group is intended to meet the needs of those students who wish to secure a thorough-going foundation for advanced study in engineering. It is hoped, therefore, that after graduation most of those who pursue this group of studies will desire to carry on their work at the University of Wisconsin or elsewhere. The agreement below has consequently been entered into by the University and Ripon College.

1. Graduates of Ripon College, who have followed the course outlined as the Pre-Engineering Group of studies, will be graduated from the various engineering courses leading to the degree of Bachelor of Science in two additional years; provided that students in civil engineering can make arrangements to complete the sophomore surveying before entering the University. (This may be done in the University Summer School.)

2. Graduates, who have pursued the studies of this group, will be graduated from the advanced engineering course leading to the professional degree in two years and two summer sessions at the University, with the provision concerning students in civil engineering above noted.

3. Students completing the first two years of the Pre-Engineering Group of studies will be graduated from the advanced course in engineering in three additional years. Because of the necessary sequence of technical studies in the University, it is not advisable to complete the course leading to the B. S. degree in less time. In three years, however, somewhat more than the required work may be done.

SCHEDULE OF RECITATIONS

First Semester, 1909-10

Eight O'Clock	English 5		T	W	Th	F				
	Economics 6		T			F				
	French 5	M		W		F				
	Latin 3	M		W		F				
	Mathematics 1 abc			W						
	Mathematics 1 a		T			F	S			
Nine O'Clock	Mathematics 11	M		W		F		Laboratory hours, 8 to 10 A. M.		
	Sociology 3		T	W	Th			Biology 1	M	F
	Biology 7		T	W	Th			Chemistry 1 a	M	Th
	Chemistry 1			W				Chemistry 1 b		F
	Composition 4	M		W		F		Physics 1	M	W
	English 8		T	W	Th	F				
	French 3		T		Th	F				
	Greek 3		T	W		F				
	History 5	M	T		Th	F				
	Latin 11			W		F				
Ten O'Clock	Mathematics 1 b	M			Th		S			
	Mathematics 1 c		T		Th		S			
	Mathematics 16	M	T	W		F				
	Philosophy 2		T	W	Th	F				
	Physics 1		T		Th					
	Biology 6				Th			Latin A	M	T
Eleven O'Clock	Chemistry 1				Th			Latin 5	M	T
	Chemistry 7	M		W		F		Mathematics 3	M	W
	Composition 6	M		W		F		Mathematics 9		T
	German A	M	T	W		F		Psychology		W
	Greek A	M	T	W		F		Physics 8	T	Th
	French 1	M	T	W		F				F
One O'Clock	Archaeology 2		T		Th			History 6	M	T
	Bible 10		T		Th	F		Latin 1	M	T
	Biology 4		T					Mathematics 3	M	W
	Biology 7			W	Th	F		Mathematics 8	M	W
	Chemistry 1					F		Physics 3		T
	Chemistry 3		T		Th					Th
	Chemistry 10	M		W						F
	English 13a	M		W		F				
	German 1	M	T	W	Th					
	German 5	M		W		F				
Two O'Clock	Greek 7	M		W		F				
	English 1 b	M	T		Th	F				
	English 10	M	T			F				
	German 7		T		Th					
	Greek 9		T		Th					
	History 1	M	T		Th	F		Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1 to 3; Saturday, 8 to 12; Mathematics, 4, T., Th., 1 to 4; Mathematics, 7, M., F., 1 to 4		
	Composition 2		T		Th	F				
	Economics 1	M	T		Th	F				
	English 1 a	M	T		Th	F				
	German 1	M	T		Th	F				
Three O'Clock	Greek 1	M	T		Th	F				
	History 15		T		Th	F				
	Mathematics 16	M	T			F				
	Physics 7		T		Th	F				
	Biology 1		T			F		German 3	M	T
	Chemistry 5		T		Th	F		Greek 5		T
Four O'Clock	Chemistry 9	M						History 13	M	Th
	English 18	M	T			F		Mathematics 14	M	T
	English 9	M			Th			Physics 5		Th
	Education 7	M	T		Th	F				
	French 1	M	T		Th	F				

Second Semester 1909-10

Eight O'Clock	Composition 3	M		W		F			
	English 10		T	W	Th	F			
	Economics 6		T			F			
	French 6	M		W		F			
	Greek 2 a	M		W		F			
	Latin 4	M		W		F			
	Mathematics 2 abc			W					
	Mathematics 2 a		T			F	S		
Nine O'Clock	Mathematics 13	M			Th				
	Mathematics 11	M		W		F			
	Sociology 1		T	W	Th				
	Biology 5		T		Th				
	Composition 4	M		W		F			
	English 3 a		T	W	Th	F			
	French 4		T		Th	F			
	Greek 4		T	W		F			
Ten O'Clock	History 5	M	T		Th	F			
	Latin 11			W		F			
	Mathematics 2 b	M			Th		S		
	Mathematics 13		T			F			
	Mathematics 16	M	T	W		F			
	Philosophy 4		T	W	Th	F			
	Physics 2		T		Th				
	Biology 10	M	T	W		F			
Eleven O'Clock	Chemistry 2				Th				
	Chemistry 6	M		W		F			
	German A	M	T	W		F			
	Greek A	M	T	W		F			
	French 2	M	T	W		F			
	Latin A	M	T	W		F	S		
	Latin 8		T		Th				
	Mathematics 3	M		W			S		
One O'Clock	Mathematics 9	M	T		Th				
	Mathematics 12	M		W		F			
	Physics 2	M		W		F			
	Physics 8		T						
	Bible 12		T		Th	F			
	Biology 5	M		W					
	Biology 9		T		Th				
	Chemistry 2					F			
Two O'Clock	Chemistry 4		T		Th				
	German 2	M	T	W	Th				
	German 6	M		W		F			
	Greek 8	M		W		F			
	English 1 a	M	T		Th	F			
	English 17		T		Th	F			
	German 8		T		Th				
	Greek 9		T		Th				
Three O'Clock	History 4	M	T		Th	F			
	Composition 2		T		Th	F			
	Economics 3	M	T		Th	F			
	English 1 b	M	T		Th	F			
	German 2	M	T		Th	F			
	Greek 2	M	T		Th	F			
	History 14		T		Th	F			
	Mathematics 16	M	T			F			
Four O'Clock	Physics 6		T		Th	F			
	Biology 3		T			F			
	Biology 2	M			Th	F			
	Chemistry 6		T		Th	F			
	Chemistry 9	M							
	Debating	M	T			F			
	English 1 b	M	T			F			
	English 2	M			Th				

DESCRIPTION OF COURSES

PSYCHOLOGY

Professor Hughes

An introductory course to the science of Psychology. Outlines with description and explanation of the phenomena of mental life. Some knowledge of Physiological Psychology is gained by the study of the relation between mental processes and nerve function, by the study of the gross anatomy of the nervous system, and by dissection of animal brains. The relation of Psychology to the principal problems of Philosophy, Education and Ethics is studied. Lectures, recitations, and the use of the reference library. Angell and James textbooks.

First semester. Three hours. W., Th., F., 10:15.

PHILOSOPHY

Professor Mutch

In all the courses in Philosophy and Education, the emphasis is placed upon the cultural rather than upon the technical,—on clarifying and coördinating the student's thinking, rather than on covering conventional subjects of college instruction. While the subjects here treated are necessary as a preparation for certain lines of professional work, they are almost equally desirable in order to round up and unify the various college courses in any liberal education.

The courses rotate in a two-year cycle. Some forethought is therefore necessary in arranging schedules so as not to be disappointed in the last year. The Philosophy and Education courses may begin as early as the second college year, especially 1 and 2.

A year course chosen from Philosophy 1, 2, 3, 4 and Greek 8 will meet the general requirement in Philosophy for graduation.

1. Method of Nature. A simple introduction to Philosophy, practicing the mind in independent thinking, at the same time that it reveals the order and unity of the processes of nature. The facts of the dynamic and vital sciences such as Geology and Biology are used to illustrate the Method of Nature. Wide reading and class discussions. Alternate years with 2.

First semester. Four hours. Omitted in 1909-10.

2. Philosophy of Culture. The aims and methods of this course are the same as in "Method of Nature," of which there is a brief recapitulation at the first. The laws and forces operative in human life and society furnish the subject matter. The course comprises work in Ethics and is a good introduction to Philosophy. Readings and class discussion following a syllabus of topics.

First semester. Four hours. T., W., Th., F., 9:00.

3. Types of Modern Thought. A study of the leading representatives of Idealism, Materialism, Realism, Pragmatism, Monism and other types of Philosophical thought. Calkins' Persistent Problems of Philosophy and selections from the authors studied will be read. Prerequisites 1 or 2. Alternate years with 4.

Second semester. Four hours. Omitted in 1909-10.

4. Logic and Metaphysics. A short course in deductive and inductive logic followed by a full discussion of the philosophical problems of reality and knowledge. Prerequisite 1 or 2.

Second semester. Four hours. T., W., Th., F., 9:00.

See also Greek 8. Greek Philosophy and its relation to Christianity.

EDUCATION

Professor Mutch

Either Course 6 or 8 with its prerequisite, together with Psychology, will meet the requirement for a state teacher's certificate for college graduates. A license for one year is issued to those who have not had the necessary one year of successful experience in teaching.

5. Philosophy of Education. The foundations of the educative process, physiological, psychological, biological and sociological, are studied for the understanding of one's own mental life and as a preparation for teaching. A syllabus of topics with readings from a wide variety of authors serves as a basis for class discussions. Alternate years with 7.

First semester. Four hours. Omitted in 1909-10.

6. High School Teaching. A study of secondary education. The content and educational value of the high school courses,

the pedagogy and problems of high school work are studied, and observations conducted, with a view to the most efficient practice. The books of DeGarmo and Hanus, and current literature are read and discussed in class. Prerequisite 5 or 7. Alternate years with 8.

Second semester. Four hours. Omitted in 1909-10.

7. History of Education. Cubberly's Syllabus is followed for a topical guide. Monroe's text-books with numerous other library references afford the reading matter upon the successive systems and ideals of ancient and modern education.

First semester. Four hours, M., T., Th., F., 3:15.

8. Pedagogy. A study of the ideals, principles and general method of teaching, with some special method. It is not wholly a technical course, but has large culture value for the nonprofessional person, especially as a guide to the discipline of one's own mental operations. Prerequisite 5 or 7.

Second semester. Four hours. M., T., Th., F., 3:15.

9. Grading and Curriculum. The physiological and psychological bases for grading are studied, together with the materials best suited to produce the desired results at different stages of mental development, both in general and religious education. This course should be preceded or accompanied by one of the other educational courses, 5, 6, 7, 8, preferably 5. Alternate years with 10.

First semester. Three hours. Omitted in 1909-10.

See also "Courses for Teachers" in Latin, German, Physics, and English.

BIBLE AND RELIGIOUS EDUCATION

Professor Mutch

The aim of these courses is: first, to put the student in command of himself and of the best light there is upon his own religious and moral nature; and second, to fit the student for effective service and leadership in that work of religious education which is required in every community.

There is an exhibit of books, courses, and appliances used in modern Sunday school work in the Philosophy room for the convenience of students working on these subjects. There is also a collection of graded school and high school text-books

and other literature useful to public school teachers; and they are welcome to consult it at any convenient time.

Course 9 under Education is quite as much a course in Religious Education as in General Education.

10. Religious Education. The psychology of religion, the principles and methods involved in religious and moral education, and the materials available for broadening the culture of the higher life, are discussed in the order of a syllabus of topics, with a large variety of readings.

First semester. Three hours. T., Th., F., 11:15.

11. The Teaching of Jesus. A study of the content of the gospel message in its great central themes, and its present day applications. An important feature of this course is a pedagogical study of the discourses of Jesus for their illustration of the best principles and methods for all teachers. Alternate years with 12.

Second semester. Three hours. Omitted in 1909-10.

12. Hebrew History-Prophets. A study of the "Former Prophets" from a religious, biographical, historical and literary standpoint. The course includes a detailed study of the Books of Samuel.

Second semester. Three hours. T., Th., F., 11:15.

13. First Forms of Christianity. The forms of belief, conduct, worship, charity and church organization in the Apostolic Age. Reading, lectures and class discussions.

Through the year. One hour. Omitted in 1909-10.

14. History of the Bible. The origin of the different groups of biblical writings and the ways in which they have been used, the manuscripts and versions ancient and modern, the meaning of textual, historical and literary criticism, and the different ways of interpreting the Bible.

Through the year. One hour. Sunday 9:15.

In addition to the courses outlined above, other courses in the Bible are given by Professor Erickson and Professor Taintor. See Greek 9 and English Literature 9a and 9b.

GREEK

Professor Erickson

A. Course for Beginners. White's "First Greek Book," Goodwin's Grammar, Goodwin and White's Anabasis.

A year course. Four hours. M., T., W., F., 10:15.

1-2. Orators, Herodotus, Homer. Selections from Lysias, Andocides, Herodotus, and Homer's Odyssey. Systematic study of grammar. Full discussion of historical and archaeological matters.

Through the year. Four hours. M., T., Th., F., 2:15.

2a. Greek Science. A course for scientific students. The class will read from a variety of authors to illustrate a course of lectures on Greek science. The vocabulary of science will receive special attention. Prerequisite: Course 1.

Second semester. Three hours. M., W., F., 8:00.

3-4. Plato, Euripides, Aristophanes, Lucian. Plato's Apology and selections from other writings; Euripides, Alcestis and Iphigenia in Tauris; Aristophanes, Acharnians; selections from Lucian.

This course alternates with Course 5-6.

5-6. Thucydides, Aeschylus, Demosthenes. Thucydides, the Sicilian Expedition; Aeschylus, Agamemnon; Demosthenes, On the Crown.

Through the year. Three hours. T., W., F., 9:00.

9. Greek Testament. A careful study, text and interpretation, of selected passages in the Greek New Testament. Prerequisite: Greek A.

Through the year. Two hours. T., Th., 1:15.

7. Greek Literature. A study of the masterpieces of Greek literature through English translations; study of the influence of classical literature upon the form and content of subsequent literature to the present time.

The method used is a combination of the historical and topical. In each period such topics as the following are discussed: Epic poetry, the drama, pastoral idyl and romance, animal fables, and wonder-stories. Lectures, assigned reading, reports, and a thesis.

First semester. Three hours. Omitted 1909-10.

8. Greek Philosophy and Its Relation to Christianity. A survey of ancient philosophy and of the more popular religious ideas down to and including contact with Christianity.

Second semester. Three hours. M., W., F., 11:15.

LATIN

Professor Clark

Miss Davis

A. Course for Beginners. This course is for college students who wish to begin Latin.

Through the year. Five hours. M., T., W., F., S., 10:15.

First Year.

1. Cicero: De Senectute. Livy. Selections. Prose Work. First semester. Four hours. M., T., W., Th., 11:15.

1a. Topography and Monuments of Ancient Rome. See Archaeology (3).

First semester. Two hours. Omitted in 1908-09.

1b. Roman Private Life. See Archaeology (4). This course will be given in 1908-09, and is recommended for freshmen taking Latin.

First semester. Two hours.

2. Horace. Odes and Epodes. Studies in the neighborhood of Rome.

Second semester. Four hours. M., T., W., Th., 11:15.

Second Year.

3. Sallust: Jugurtha. Selections from Martial, Phaedrus, Vergil's Eclogues.

First semester. Three hours. M., W., F., 8:00.

4. Selections from Tacitus, Seneca, and Pliny's Letters. The Captivi of Plautus.

Second semester. Three hours. M., W., Th., 8:00.

Students of the second year, who have not had both the lecture courses 1a and 1b, are recommended to take one of these in connection with the reading course of the first semester.

The following advanced elective courses are open to those who have completed two years' work as outlined above.

5. Satire. Selections from Juvenal, Horace, and Persius. First semester. Three hours. M., T., Th., 10:15.

6. Comedy. Selected plays of Plautus and Terence. Rapid reading course.

First semester. Omitted in 1909-10.

7. Catullus and Tibullus. Selections.

Second semester. Two hours. Omitted in 1909-10.

8. Roman Letters. Selected letters of Pliny and Cicero. Second semester. Two hours. T., Th., 10:15.

11. Latin Literature. The work includes: (1) The translation of all of the selections in Smith's Selections, from the beginning to Cicero; many selections from the chief authors from Cicero and Gellius: (2) the mastery of the Primer of Latin Literature which will be supplemented by a course of lectures on the History of Latin Literature; (3) the preparation of a paper upon some topic connected with the work. Required of those who major in Latin.

Text-books: Smith's "Latin Selections"; Wilkin's "Primer." Through the year. Two hours. W., F., 9:00.

12. Course for Teachers. Caesar, Cicero, and Vergil. This course is designed for those students who are planning to teach Latin. The Civil War of Caesar, Selected Oration of Cicero, not commonly read in the high school, and the last six books of Vergil will be read. Special reviews will be made of case and mood constructions, some writing of Latin will be done and discussions held on matters pertaining to the teacher's work. Required if Latin is a major subject.

Through the year. Three hours. Omitted in 1909-10.

CLASSICAL ARCHAEOLOGY AND ANTIQUITIES

Professor Clark

Professor Erickson

The following courses are intended to supplement the work of the Classical Department. They are well illustrated by the use of stereopticon and photographs:

1. Greek Antiquities. Lectures on the geography and peoples of Greece. Topography of Athens. Private life and social conditions in Athens.

Second semester. Two hours. Omitted 1909-10.

2. Greek Art. The primary object of this course is to familiarize the student with the important remains of ancient art and the principles of classic architecture and sculpture.

First semester. Two hours. T., Th., 11:15.

3. Topography and Monuments of Ancient Rome. This course traces the growth of the ancient city from its foundations to the fourth century, treating in detail the following portions: Roman Forum, Capitoline, Palatine and Aventine

Hills, Fora of the Empire, Buildings of the Campus Martius, Triumphal Arches, Thermae, Tombs, and other buildings and monuments of the city. One hour each week will be devoted to lectures and examinations. The second hour, 7 p. m., Wednesday, will be used to illustrate the lectures by means of lantern slides. The course is open to all students of the college. No knowledge of Latin is required. Notes will be taken and outside reading required. Required of students whose major is Latin. See Latin 1a.

First semester. Two hours.

4. Roman Private Life. Lectures are given on the following subjects: the Roman name, the organization of the family, marriage and divorce, children—their nurture, amusements and education; slaves, freedmen, clients, and hospitals; houses—their construction, decoration and furnishing; dress, daily and social life, theater, circus, amphitheatre and public baths; writing, manuscripts, and libraries, travel, arts, and industries; religion and burial. The course is open to all students of the college, and no knowledge of Latin is required. Notes will be taken and outside reading required. See Latin 1b. Required of students whose major is Latin.

First semester. Two hours. Omitted in 1909-10.

5. Roman Archaeology. A detailed study is made in this course of the ancient monuments in Rome and Pompeii and Roman Topography. Students are sent to the classical authors themselves first and then to the modern English writers for fuller descriptions. Many of the inscriptions in the Corpus, Vol. VI are read. Maps are drawn. Several hundred photographs and slides are studied. Open only to juniors and seniors. Omitted in 1908-9.

Through the year. Three hours.

In courses 3 and 4 a laboratory fee of \$1.50 is charged.

FRENCH

Professor Harwood

Associate Professor Farr

First Year

Professor Harwood

1 and 2. Course for Beginners. A study of the grammar (Thieme and Effinger's) occupies the main part of the time of the first semester; the remaining portion is spent in reading,

memorizing, and writing under dictation. The course is conducted in French, and the students are expected to recite in French. In the second semester, more attention is paid to reading and prose composition.

A year course. Four hours. Section 1, M., T., Th., F., 3:15; Section 2, M., T., W., F., 10:15.

Second Year

Professor Harwood

3. Sophomore French. This course is conducted entirely in French. The work is as follows: Sicard's Easy French History, one hour; reading of comedies and short stories, two hours. Supplementary reading, with a written report of the work read, is required of each member of the class.

First semester. Three hours. T., Th., F., 9:00.

4. Sophomore French. This course is conducted in the same manner as course 3. French Daily Life, one hour; Novel, two hours. Supplementary reading with written report.

Second semester. Three hours. T., Th., F., 9:00.

Third Year

Associate Professor Farr

Courses 5 and 6 are open only to those who have successfully completed courses 3 and 4. The class room work in both courses is conducted entirely in French.

5. Novel. Selected works of a number of modern prose writers will be read, and oral, or written reports made upon them. A brief survey of French literature prior to the 17th Century, will be given by means of lectures.

First semester. Three hours. M., W., F., 8:00.

6. Drama. A study of the French drama from Corneille to our own times. The literary survey will be continued so as to include contemporary authors.

Second semester. Three hours. M., W., F., 8:00.

GERMAN

Professor Harwood

Miss Zobel

First Year

Miss Zobel

A. Course for Beginners. This course is arranged for students who have not met the college entrance requirements in

German. The work, if satisfactorily done, will admit the student to the Freshman German.

Thomas's "Practical German Grammar," Part I. Reading, dictation, memorizing, reciting in German.

Through the year. Four hours. M., T., W., F., 10:15.

1 and 2. Freshman German. This course is intended to continue the work begun in the secondary schools. It is conducted in German, and the students are expected to prepare their lessons, so that they can recite them in German. Some work in composition, such as reviews of the texts read, or original themes, is required throughout the course.

Keller's "Bilder aus der deutschen Litteratur," two hours; reading of easy plays and short stories, two hours.

Through the year. Four hours. Section 1, M., T., Th., F., 2:15; Section 2, M., T., W., Th., 11:15.

Second Year

Professor Harwood.

3. Sophomore German. This course is conducted entirely in German. Two hours of the time are given to a study of the works of Keller, Riehl, Rosegger, Storm, Saar, and others; the third hour, to oral reports on selected articles from German magazines, or short stories. Written reviews are required for all works read in class.

First semester. Three hours. M., T., Th., 3:15.

4. Sophomore German. This course is conducted in the same manner as 3. The dramas of Freytag, Fulda, Grillparzer, Sudermann, Wildenbruch, and others, are to be studied this year.

Second semester. Three hours. M., T., Th., 3:15.

Third Year

Professor Harwood

5. Schiller. This course is conducted entirely in German. The work is as follows: Biography of Schiller (Scherer, Koenig); Die Räuber, Don Carlos, Wallenstein, Maria Stuart, Die Jungfrau von Orleans, Die Braut von Messina, Wilhelm Tell. Each play is to be analyzed according to Freytag's dramatic scheme. The members of the class are required to read selected poems of Schiller and make a written report of this work.

First semester. Three hours. M., W., F., 11:15.

6. Goethe. This course is conducted on the same general

plan as the Schiller course. Biography of Goethe (Scherer, Koenig). Works to be read: *Dichtung und Wahrheit*, Goetz von Berlichingen, Egmont, *Iphigenia auf Tauris*, Torquato Tasso, *Faust I*. Assigned lyric poems to be read and reported on outside of class.

Second semester. Three hours. M., W., F., 11:15.

Fourth Year

Professor Harwood

7 and 8. Course for Teachers. This course is designed for students who are intending to teach, and is open to those who have completed 5 and 6. One hour of the time is spent in reciting in German on work assigned either from *German Daily Life* (Newson and Company), or from some German newspaper or periodical; the second hour, to a thorough review of grammar (Krause-Nerger). In the second semester, composition on assigned topics, or original compositions take the place of the selected readings, and these compositions are criticised in class.

The members of this class are called upon to conduct the recitations part of the time, and are also given an opportunity to substitute.

Through the year. Two hours. T., Th., 1:15.

ENGLISH

Professor Taintor

Professor Shurtleff

The work in English includes the study of Literature, of Literary History and of Composition. The Literature courses, and also the first year work in the History of English Literature, are given by Professor Taintor. The other courses in Literary History and the courses in Composition are given by Professor Shurtleff.

The course known as English I is required. One semester in the History of Literature, and one semester in Composition make the full year's work. The History course, English Ia, will be given to the first division of the class in the first semester, and to the second division in the second semester. The Composition course, English Ib, will be given to the second division of the class in the first semester, and to the first division in the second semester. These courses together are

preliminary to all other courses in English, and should be taken in the first year.

A Course for Teachers, designed for those in the upper classes who are preparing to teach will also be given. The course will include a review of the college entrance requirements under Professor Taintor in the first semester, and a review of the principles of composition under Professor Shurtleff in the second semester. This is a full year course, one hour a week. No credit will be given for less than a year's work.

ENGLISH LITERATURE

Professor Taintor

Required, First Year.

English 1a. The History of English Literature. See above for description of the course.

Text-book: "The Making of English Literature", Crawshaw. "English Poetry", Manly.

First semester: Division 1, Four hours. M., T., Th., F., 2:15.

Second semester: Division 2, Four hours. M., T., Th., F., 1:15.

Elective II.

The following courses, given within the period of two years, are so arranged that with proper forethought any student doing special work in English may easily take as many of them as may be desirable.

For the year 1909-10 the work will be as follows:

9a. The Bible as Literature. The New Testament.

First semester. Two hours. M., Th., 3:15.

8. The Drama before Shakespeare. The gradual development of the drama is traced, and the earlier plays are read.

Text-book: "Specimens of the Pre-Shakespearean Drama." Manly.

First semester: Four hours. T., W., Th., F., 9:00.

5. The Romantic Movement. Studies in the poems of Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. Outside readings and reports.

First semester. Four hours. T., W., Th., F., 8:00.

2. Chaucer. This course is designed for those who desire

a general acquaintance with Chaucer's poems, and an insight into the life of the fourteenth century. It consists chiefly of the reading of Chaucer, with frequent reports upon matters pertaining to his times. It requires no previous study of Middle English.

Second semester. Two hours. M., Th., 3:15.

10. The American Poets. Readings in the poems of representative poets. Page's "Chief American Poets" will be used.

Second semester. Four hours. T., W., Th., F., 8:00.

12a. Course for Teachers. This course is given in connection with the Course 12b under Professor Shurtleff and should be taken only by those who plan to take the whole year's work. It is designed primarily for teachers. It consists of a rapid review of the college entrance requirements and a study of the methods and practice of teaching.

First semester. One hour.

3. Shakespeare. Studies in the Historical Plays.

Second semester. Four hours. T., W., Th., F., 9:00.

The following courses will be given in 1910-11:

9b. The Bible as Literature. The Old Testament. Moulton. The Modern Teacher's Bible.

First semester. Two hours.

6. Tennyson and Browning. Studies in the poems of Tennyson and Browning with the purpose of gaining an intelligent appreciation of their merits. The course embraces a careful study of individual poems, with outside readings and assigned reports.

First semester. Four hours.

3a. Shakespeare. Studies in the Tragedies.

First semester. Four hours.

7. English Prose. The course follows the development of Prose, from Bacon to Ruskin.

Second semester. Two hours.

3b. Shakespeare. Studies in the Comedies.

Second semester. Four hours.

4. The Age of Milton. Special attention will be given to Paradise Lost and Paradise Regained. Assigned readings and reports on the life and work of Milton. A brief study will be made of Bunyan's "Pilgrim's Progress."

Second semester. Four hours.

11. English Research. This course is open upon permission from the instructor to students specializing in English, who have not less than thirty hours of credit in their major studies. There is no class work. A definite subject is assigned to each student for original research under the supervision of the instructor. Blanks filled out to indicate the status of the research at successive stages are to be filed weekly.

From two to three hours credit will be given for the work of a semester.

ENGLISH COMPOSITION AND LITERARY HISTORY

Professor Shurtleff

The work in English Composition and Literary History comprises three kinds of courses, courses in English Composition, courses in Literary History, and one course in Anglo-Saxon. The courses in English Composition aim to accomplish three main purposes: (1) to train students to use the English language with accuracy and force; (2) to give further training in Composition to those who in later business or professional life, will need especial skill in writing; (3) to give those who have some talent for writing an opportunity to further develop their powers. The courses in Literary History have two main aims: (1) to broaden and increase the student's knowledge of literary history; (2) to develop in the student critical ability. Writing forms a distinct part of the work of the courses in Literary History. The course in Anglo-Saxon is a study of the Anglo-Saxon language.

1b. Freshman English Composition. Prescribed for all freshmen. The course consists of a study of the principles of composition. Emphasis is laid upon accuracy and skill in the use of words, sentences and paragraphs. The four forms of prose composition, Exposition, Argumentation, Description, and Narration are also studied. Themes, recitations, conferences.

Text-book: Hammond Lamont's "English Composition."

Through the year. Four hours. Section 1, first semester, M., T., Th., F., 1:15. Section 2; second semester, M., T., Th., F., 2:15.

2. English Composition. This course is intended primarily for sophomores who have done good work in English 1b,

and who wish for more practice in composition. It deals with the four forms of prose composition, Exposition, Argumentation, Description and Narration. The work is carried on by lectures, themes, and conferences.

Text-book: Barrett Wendell's "English Composition."

First semester. Three hours. T., Th., F., 2:15.

3. Exposition. This course is adapted to the needs of scientific and engineering students. The work emphasizes the structural elements of exposition. It is especially desirable that the writing in this course should deal with subjects which the student is investigating in his scientific or engineering work. Written exercises, lectures, and private conferences.

Text-book: Hammond Lamont's "Specimens of Exposition."

Second semester. Three hours. M., W., F., 8:00.

4. Advanced Composition. Intended for those who have some talent for writing. In this course students will be urged to develop power in that form of composition which they most prefer. Considerable emphasis will be laid upon practice in writing the short story.

Themes, lectures, and conferences.

Through the year. Three hours. M., W., F., 9:00.

5. Debating. Practice in brief drawing, in the composition of debates, and in the writing of argumentative prose. Each member of the class will thoroughly prepare two debates during the semester.

Second semester. Three hours. M., T., F., 3:15.

17. Literary History of Mediaeval England. The influence of continental literature upon England in this period, especially upon Chaucer, will be studied. Several Mediaeval Romances will be read, among which are Gawain and the Green Knight, the Lady of the Fountain, Tristram and Iseult, Parsival, and The Story of the Grail. These works will be read to be appreciated and enjoyed. A knowledge of English is sufficient for the course.

Second semester. Three hours. T., Th., F., 1:15.

8. Literary History of the Early Eighteenth Century. The beginning of the novel and of the Periodical Essay. Dryden, Pope, Swift, Addison, Steele and others will be studied.

First semester. Three hours. Omitted in 1909-10.

9. Literary History of the Second Half of the Eighteenth Century. Johnson and his friends. Among those studied are Goldsmith, Gray, Collins, Young, Cowper, Burns, Blake.

Second semester. Three hours. Omitted in 1909-10.

18. Literary History of America. Literary History of America from the beginning to the present time.

Text-book: Wendell and Greenough's "History of Literature in America."

First semester. Three hours. M., T., F., 3:15.

13a. Anglo-Saxon. Course 13a requires no previous knowledge of Anglo-Saxon.

Text-book: Bright's "Anglo-Saxon Reader."

First semester. Three hours. M., W., F., 11:15.

12b. Course for Teachers. This course is recommended to students who plan to teach English. It consists of a rapid and comprehensive review of the elements of composition. The work is carried on with a view to impress on the mind of teachers the fundamental principles of effective writing. This course is given in connection with course 12a under Professor Taintor.

Second semester. One hour.

HISTORY

Professor Marston

Associate Professor Farr

Courses 1, 5, 6, 7 and 8 are required of those making History their major. Course I in United States History must precede all other courses in American History. The work will be carried on by means of text-books, lectures, reports and required readings. Oral and written exercises and separate and final examinations are held on both texts and lectures. The minimum requirement of reading, exclusive of the text, is twenty-five pages a week for every unit of credit.

AMERICAN HISTORY

Professor Marston

1. United States History. A general survey of the social, economic and political history of the United States. Lecture on the origin and growth of political parties. Not open to freshmen.

Text-book: Epochs of American History.

First semester. Four hours. M., T., Th., F., 1:15.

2. Westward Expansion. A study of westward migration, and the social, economic and political aspects of the formation of American commonwealth west of the Allegheny mountains. It embraces a study of the organization of a public land system; communication and transportation; evolution of the American frontier, and the part the West has played in our national development.

Omitted 1909-10.

4. Diplomatic History of the United States. This will be a study of the international relations of the United States from 1775 to the present day, including such topics as the following: Treaties relative to American commercial relations between various countries; foundations of a national foreign system in 1775; committee of foreign relations; embassies to Europe; French alliances; Spanish territorial diplomacy; the purchase of Louisiana; the northeast and northwest boundaries; the fisheries; the Isthmian canal; the Hague conference; lectures on American treaties.

Second semester. Four hours. M., T., Th., F., 1:15.

12. American Development. A sociological interpretation of the history of the United States. It will consist of a study of the political or governmental, economic, intellectual and religious interests in their associational process in order that the student may secure as complete an understanding as possible of American development and American problems.

Omitted 1909-10.

13. Seminar in American History. This course is designed to familiarize the student with the elements of historical method, investigation, criticism and the use of sources. For this part of the work Langlois and Seignobo's "Introduction to the Study of History," is used as a manual. The student will embody the results of his study of method in an assigned topic for investigation, part of which, at least, must be from source material. Open only to seniors.

Through the year. One hour attendance and two hours credit. Th., 3:15.

ASIATIC HISTORY

Professor Marston

11. Contact between Occident and Orient in the Nineteenth Century. India, China and Japan will be given particular

attention. The chief factors which have gone to make up both the Near and Far Eastern question will be carefully examined with reference to race and religion, the policies of the great powers, as well as the interests and ambitions of the minor states most concerned. The lectures will cover such topics as: the mental outfit of the Asiatic and his habitual views of life; a comparison of the Asiatic with the western mind; the historic influences of Europe upon Asia, and of Asia upon Europe.

Omitted 1909-10.

EUROPEAN HISTORY

Associate Professor Farr

5. Ancient History. A brief outline of Oriental History, and a more particular study of Greece and Rome.

First semester, Oriental History and History of Greece.

Second semester, Roman History.

Through the year. Four hours. M., T., Th., F., 9:00.

6. Mediaeval History. A general survey of the history of continental Europe from the barbarian invasion to the close of the fifteenth century.

Text-books: Robinson, "Western Europe"; Adams, "Civilization During the Middle Age."

First semester. Four hours. M., T., W., Th., 11:15.

7. English History. A general survey of the political, social and economic history of England. Terry, "A History of England."

First semester. Four hours. Omitted in 1909-10.

8. Modern European History. A general survey extending from the close of the fifteenth century to the present day.

Text-books: Schwill, "Modern European History," and portions of Seignobos' "Political History of Europe since 1814."

Second semester. Four hours. M., T., W., Th., 11:15.

9. English Constitutional History. From the earliest time to the present day. The design of the course is to explain the origin and development of the English constitution.

Prerequisite: Course 7. Text-book: Medley, "English Constitutional History."

Second semester. Four hours. Omitted in 1909-10.

14. 17th and 18th Centuries. A study of the rise of France to pre-eminent power, and the beginning of her decay; of the rise of Prussia and Russia; and something of the political

changes in England and the growth of her colonial possessions.

Text-books: Wakeman, "European History, 1598-1715." Robinson and Beard, "Development of Modern Europe," Vol. I.

Second semester. Three hours. T., Th., F., 2:15.

15. The Era of the Renaissance and Reformation. The course is intended to include the general history of Europe during the 15th and 16th centuries, as well as a more detailed study of the two movements named.

First semester. Four hours. M., T., Th., F., 2:15.

16. Nineteenth Century from 1815 to the Present Day. This course will include not only strictly European affairs, but also the world-wide expansion of the territory and interests of the nations of Europe. Prerequisite 6 and 8.

Second semester. Three hours. Omitted in 1909-10.

17. International Law. The nature and history of international law and the rules observed among states during peace, war, and neutrality.

Second semester. Four hours. Omitted in 1909-10.

ECONOMICS

Professor Marston

Course 1 is not open to freshmen. It must precede all other courses and is required of those taking their major in history. The work will be carried on by means of text-books, except courses 5 and 6, lectures, discussions, reports and required readings. Oral and written exercises and separate and final examinations are held on both texts and lectures in all courses. The minimum requirement of reading, exclusive of the text-book, is twenty-five pages a week for every unit of credit.

1. The Principles of Economics. A general survey introductory to all other courses in economics. Its purpose is to acquaint the student with fundamental principles; to open the field for a more detailed and extensive study, and to offer such rules and principles as are contributed to business success by the science of economics.

Text-book: Felter, "Principles of Economics."

First semester. Four hours. M., T., Th., F., 2:15.

2. The Principles of Public Finance. A general course embracing: (a) public expenditures, their nature, classification

and relation to public welfare, lectures; (b) public revenues, their classification, nature and characteristics. Taxation will receive particular attention. Its nature, principles, sources, limits, incidence and influence, and in the study of its particular forms, as the general property tax, income, inheritance and business taxes. (c) Public Credit; when and how employed; contraction of public debts, their classification, flotation, conversion, funding and redemption. (d) Financial Administration; the budget, its preparation, form and composition; collection of revenue; war financiering. Text-book: Adams, "Finance." Omitted in 1909-10.

3. Economic Problems. This course embraces a study of labor and capital; free trade and protection; immigration; industrial crises; transportation and railroad rates; the trust problem and municipal ownership. Taussig, "Tariff History of the United States" and Adams and Sumner, "Labor Problems," will be two of the text-books used.

Second semester. Four hours. M., T., Th., F., 2:15.

4. Money, Credit and Banking. An examination of value and functions of money; standards of value; currency systems of the world; a review of the positions of the bimetallists and the quantity theorists; systems and coinage of metallic currency; credit, credit documents; paper money, convertible and inconvertible notes; clearing houses; foreign exchanges; banks and banking; modern currency problems; foreign banking systems.

Second semester. Omitted in 1909-10.

6. Economic Seminar. The course is designed to afford training in economic investigation and practice in the use of sources. Each member of the class is expected to complete some single topic, embodying the results of his special research, and present it in the form of a written thesis for criticism and discussion. The course is opened to a limited number of advanced students. The field from which topics are chosen will vary from year to year. Open only to seniors.

Through the year. One hour attendance and two hours credit. T., 8:00.

SOCIOLOGY

Professor Luehring

1. Elements of Sociology. A preliminary and general survey of the field of Sociology; the origin, nature and develop-

ment of society. Some of the leading sociological theories will be read and discussed. Studies will also be made of society in the concrete. Lectures, text, assigned readings, reports.

Second semester. Three hours. T., W., Th., 8:00.

2. Social Institutions of Organized Christianity. The modern missionary movement; the social evils of the non-Christian world; the social influences of the primitive religions; institutional work of the church; and a consideration of the contribution of Christian missions to social progress. Lectures, reports, outside reading. Omitted in 1909-10.

3. Rural Sociology. Social conditions in American rural communities; a special study of the advantages, and problems of life in the country, as manifested in connection with health, wealth, sociability, education, and religion. Organized efforts for rural progress. Particular attention will be given to the state of Wisconsin. Lectures, assigned readings, reports.

First semester. Three hours. T., W., Th., 8:00.

MATHEMATICS*

Professor Paine

Mr. Mergendahl

1. Algebra. The first weeks of this course will be given to a review of those topics covered by the college admission requirements in algebra. The remainder of the course will be given to the study of the elementary properties of quadratic equations; geometric series; the binomial theorem; choice; the elements of determinants and of the general theory of equations.

First semester. Four hours. Section 1: T., F., S., 8:00. Section 2: M., Th., S., 9:00. Section 3: T., Th., S., 9:00.

Sections 1, 2, and 3: W., 8:00.

Professor Paine and Mr. Mergendahl

2. Logarithms and Trigonometry. This course will cover the elementary theory of the trigonometric functions and the elements of logarithms. Special stress will be laid on practice

*Unless taken continuously through the year, no full course offered by the Department of Mathematics, or any part of such course, can be counted toward a degree.

in computation, the solution of triangles and the reduction of identities.

Second semester. The sections and hours of meeting as in Mathematics 1.

Professor Paine and Mr. Mergendahl

3. Mechanical Drawing. Use of instruments; geometrical problems; graphical solution of conic sections; third angle projection; isometric drawing; sections and intersections; developments; working drawings; lettering; tracing; blue printing.

Text-book: Anthony's "Mechanical Drawing."

Through the year. Four hours. M., W., S., 10:15-12:15.
Mr. Mergendahl

4. Surveying. Use of instruments; field problems; computation; drawing; and the theory of simple railroad curves. This course is open only to those who have obtained a grade of not less than C in Mathematics 2.

Text-books: Pence and Ketchum's "Surveying Manual." Daniel's "Topographical Drawing."

First semester. Four hours.

Given alternately with course 7. Omitted in 1909-10.
Mr. Mergendahl

7. Descriptive Geometry. Problems relating to the point, line and plane. The generation and classification of lines and surfaces; planes tangent to surfaces of single and double curvature; intersections, developments, and revolutions. This course is open only to students who have had the first half of Mathematics 3.

Text-book: Anthony and Ashley's Descriptive Geometry.

Through the year. Four hours. M., F., 1:15-4:15. Given alternately with courses 4 and 13.
Mr. Mergendahl

8. Analytic Geometry. The point; loci; the straight line; polar co-ordinates; transformation of co-ordinates; the circle; conic sections; tangents; diameters; poles and polars; general equation of the second degree. Lectures, problems and conferences.

Text-books: Pence and Ketchum's "Surveying Manual."

First semester. Four hours. M., W., F., 11:15.
Professor Paine

9. Differential and Integral Calculus. Rates and limits;

continuity of functions; special limits; differentiation; derivatives of higher order than the first; mean value theorems; maxima and minima; points of inflection; infinitesimals; partial differentiation; integration; definite integrals; multiple integrals; infinite series; Taylor's theorem; applications to geometry and mechanics. Great stress will be laid on the solution by the students of a large number of problems. Lectures, problems and conferences.

Text-book: Osgood's Differential and Integral Calculus.

Through the year. Four hours. T., Th., S., 10:15.

Professor Paine

5. Mechanics: Analytic and Graphic Statics. Elements of vector analysis; force and stress; concurrent forces; composition and resolution of non-concurrent, coplanar forces; equilibrium of coplanar forces; equilibrium of parts of bodies. Stresses in roof trusses; bridge trusses under dead loads and under live loads. Analytic and graphic methods are developed side by side throughout the course. Lectures, problems, conferences.

Second semester. Four hours. M., W., F., 11:15.

Professor Paine

11. Mechanics: Dynamics. This course is a continuation of Mathematics 5. Force and the laws of motion. Dynamics of a particle; trajectories; friction; central forces; elementary theory of the planetary motions; work and energy; momentum and impulse. Dynamics of a rigid body; motion of systems of particles; D'Alembert's Principle; virtual work; centers of mass; moments of inertia; theory of energy; generalized co-ordinates. Lectures, conferences, problems, and assigned readings. Required of those who major in Mathematics. Pre-requisites: Courses 5 and 9.

Through the year. Four hours. M., W., F., 8:00.

Professor Paine

12. Thermodynamics. This course is intended for students who have taken Mathematics 9. It will consist of a mathematical development of the theory of heat. Some of the topics are: The laws of thermodynamics, perfect gases, saturated and superheated vapors, compound engines, internal-combustion engines, flow of fluids, injectors, steam-turbines. The work in this course will be based on parts of Zeuner's Technical Thermodynamics.

First semester. Four hours. Given alternately with Course 16. Omitted in 1909-10.

Professor Paine

15. Differential Equations. Integration of differential equations of the first order, of differential equations of higher order than the first and of systems of differential equations; integration of linear differential equations by means of series or definite integrals; integration of partial differential equations and of systems of such equations. Applications throughout the course to problems in Mechanics and Geometry. Lectures, problems and conferences.

Second semester. Four hours. Given alternately with Course 16. Omitted in 1909-10.

Professor Paine

14. Methods of Applied Mathematics. In this course, part of Mellor's Higher Mathematics for students of Chemistry and Physics will be read. This will form the basis for an extended drill in some of the physical applications of certain topics in pure mathematics; complex algebra; partial derivatives; line, surface and space integrals; differential equations. Lectures, problems and conferences.

First semester. Four hours. M., T., F., 3:15.

Professor Paine

13. Hydromechanics. Hydrostatics and the flow of water over weirs, and through orifices, pipes and open channels. Lectures, problems and conferences.

Second semester. Four hours. Given alternately with Course 7. Omitted in 1909-10.

Mr. Mergendahl

16. Harmonic Analysis. Fourier's series; spherical harmonics; the potential function; applications to problems in the conduction of heat, vibrating strings and membranes, electrostatics, direct and alternating currents, electrical machinery. Lectures, problems and conferences.

Through the year. Four hours. M., T., F., 2:15.

Professor Paine

BIOLOGY

Professor Talbert

First Year

1. General Biology. This course is introductory to advanced biological courses. It also meets the needs of those

who wish to get some knowledge of the general principles of biology without taking an extended course. The living substance, protoplasm, is first examined and its characteristics studied. Then a detailed study is made of an animal, the earth-worm, and of a plant, the fern. Emphasis is laid upon the fundamental points of resemblance of all living things, plants and animals.

First semester. Four hours. T., F., 3:15. Laboratory, M., F., 8:00-10:00.

2. General Botany. A study of the morphology and physiology of the types of all classes beginning with the unicellular forms and ending with the flowering plant, much emphasis being laid on the development from the evolutionary standpoint.

Second semester. Three hours. M., 3:15. Laboratory, W., S., 8:00-10:00.

10. Physiology and Hygiene. This course is open, without prerequisites, to all College students. Only enough anatomy is studied to give the necessary foundation for an understanding of the workings of the human body. Much of the time of the course is devoted to questions of personal hygiene and the public health. Lectures, demonstrations, and recitations, with a few laboratory exercises.

Text-book: "The Human Mechanism," by Hough and Sedgwick.

Second semester. Four hours. M., T., W., F., 10:15.

3. Comparative Anatomy of Vertebrates. This course is designed to give an idea of the life history of vertebrates. The frog is taken as a type and a fairly complete study is made of its natural history, anatomy, physiology, and development. Instinct, intelligence, adaptation to environment, etc., are also discussed. This is followed by a comparative study of different types of chordates like the ballanoglossus, amphioxsis, perch, turtle, pigeon and some mammal, which is intended to give the student comprehensive knowledge of the structure and development of vertebrates in general.

Second semester. Four hours. T., F., 3:15. Laboratory, M., F., 8:00-10:00.

Second Year

4. Histology. The student who has completed course 3 on the gross anatomy of animals is prepared to study the micro-

scopic structure of the various tissues. Each student prepares sections, stains, and mounts tissues, and makes drawings from his own preparations and from slides belonging to the department.

Prerequisite: Course 3.

Text-book: Hill's "Biology."

First semester. Four hours. T., 11:15. Laboratory, T., Th., F., 1:00-3:00.

6. Bacteriology. This course is intended to give training in bacteriological technique and to give a knowledge of the principles of bacteriology. The characteristics of a number of typical bacteria are worked out in detail and then the names of unknown species are determined. Experiments are performed illustrating the physiological characteristics of bacteria. Quantitative analyses are made of air, milk, water.

Text-books: Frost's "Laboratory Manual" and Jordan's "General Bacteriology."

First semester. Five hours. Th., 10:00. Laboratory, M., T., Th., 1:00-3:00.

5. Embryology. Work is confined to the embryology of vertebrates, the frog and the chick serving as types. The laboratory is provided with an incubator and each student makes preparations of the different stages of development of the types studied. Prerequisite: Courses 3 and 4.

Text-book: "Foster and Balfour."

Second semester. Five hours. M., W., 11:15. Laboratory, M., T., Th., 1:00-3:00.

7. Physiology. This course is especially valuable to those intending to study medicine. It will also be found helpful by students intending to teach and by those taking courses in psychology. The subject is taught by lectures, recitations, demonstrations and laboratory work.

Text-book: Howell's "Physiology."

8. Comparative Anatomy of Invertebrates. The anatomy and to some extent the physiology of invertebrate animals are studied. Dissections and drawings are made of representatives of the most important classes of invertebrates.

First semester. Four hours.

CHEMISTRY

Professor Gilman

The Department of Chemistry, in a variety of courses, offers to the students ample facilities to prepare themselves for modern laboratory practice. The work of the first year consists of a thorough course in general chemistry and qualitative analysis, including lectures, recitations and laboratory experiments. During the second year the students are given a systematic training in analytical methods, which is followed in the third year with courses in organic chemistry, and in the fourth year with courses in physiological and physical chemistry. To students intending to pursue the study of medicine, opportunity is given to prepare for meeting the requirements now prescribed for candidates by the foremost medical schools of the country.

First Year

1. General Chemistry. The work in this department begins with a course in elementary inorganic chemistry with laboratory practice. It includes a study of the fundamental laws, and the non-metallic elements and their compounds. Lectures, recitations, quizzes, problems.

Prerequisite: Elementary Physics.

First Semester. Four hours. W., 9:00; Th., 10:00; F., 11:15. Laboratory, M., Th., 8:00-10:00; or T., F., 8:00-10:00.

2. Qualitative Analysis. This is a continuation of course 1. A careful investigation of the metallic elements and their compounds is made during the first part of the semester, and the remainder of the time is devoted to Qualitative Analysis.

Prerequisite: Chemistry 1.

Second semester. Four hours. Th., 10:00; F., 11:15. Laboratory, M., Th., 8:00-10:00; or T., F., 8:00-10:00.

Second Year

3. Quantitative Analysis. Lectures, recitations and laboratory practice in the use of the methods of gravimetric and volumetric analysis; separation and estimation of metals, acids, and water of crystallization.

Prerequisite: Chemistry 2.

First semester. Four hours. T., Th., 11:15. Laboratory, T., Th., 1:00-3:00.

4. Analytical Chemistry. This is a continuation of course 3. Special applications of volumetric analysis; analysis of alloys, mineral and water analyses. Prerequisite: Chemistry 3.

Second semester. Four hours. T., Th., 11:15. Laboratory, T., Th., 1:00-3:00.

Third Year

7. Physical Chemistry. An elementary course based upon Walker's Introduction to Physical Chemistry as a text. The laws of gases, substances in solution, theory of ions, and the principles of electro-chemistry. Recitations and lectures. Prerequisite: Chemistry 4 and Physics 1 and 2.

First semester. Three hours. M., W., F., 10:00.

6. Organic Chemistry. A course in general organic chemistry. Lectures, recitations, and laboratory work. The Aliphatic Series with special reference to the more important hydrocarbons and their derivatives. Prerequisite: Chemistry 3.

Second semester. Five hours. M., W., F., 10:00. Laboratory, S., 8:00-12:00.

Fourth Year

5. Medical and Physiological Chemistry. A technical course for those who are preparing for the medical profession. This includes the examination of blood, muscular tissue, gastric digestion, testing of milk, and urinary analysis. Prerequisites: Chemistry 3 and Biology 1.

First semester. Five hours. T., Th., F., 3:15. Laboratory, M., F., 1:00-3:00.

10. Advanced Organic Chemistry. The Aromatic Series. Lectures, recitations, and laboratory work. Prerequisite: Chemistry 6.

First semester. Four hours. M., W., 11:15. Laboratory, M., F., 1:00-3:00.

9. History of Chemistry. This course is designed for advanced students. During the first semester a study will be made of the history of chemistry, and during the second semester the historical development of the important theories of chemistry. Prerequisite: Chemistry 3.

8. Research Work. This course is designed for advanced students in chemistry. Special subjects, and the amount of credit will be arranged on consultation with the instructor.

GEOLOGY

Professor Gilman

1. Mineralogy. This course includes Crystallography, blowpipe analysis, and descriptive Mineralogy. The laboratory work consists of a study of the common rock-making minerals with reference to their chemical composition, optical properties and action under the blowpipe.

Prerequisites: Chemistry 1 and 2, and Physics 1 and 2.

First semester. Four hours.

2. General Geology. The object of this course is to make a study of structural and dynamical Geology with special reference to the geology of Wisconsin.

Field work and work on selected themes.

Prerequisites: Chemistry 1 and 2, Biology 1.

Second semester. Four hours.

PHYSICS

Professor Barber

Mr. Sherwood

General Physics. Fundamental principles of physical science for those contemplating the study of any pure science, or engineering, or medicine, or teaching, are presented mainly from the experimental standpoint. The instruction in lectures, recitations, quizzes, problem papers and private readings is entirely concerned with the principles studied in the laboratory and the practical applications of the same. In this manner a thorough grasp of foundation principles is obtained by continually connecting theory and experiment.

The laboratory work is exclusively quantitative, the aim being to present the subject as a science of exact measurement. The apparatus is all new and much of it but recently designed for this particular line of work. With it the student is put in touch with the methods and instruments of modern physical investigation.

Prerequisite: Trigonometry.

General Reference Text: Watson, "Physics."

1. Mechanics, Molecular Physics and Heat.

Text-book: Millikan, Mechanics, Molecular Physics and Heat.

First semester. Five hours. T., Th., 9:00.

Laboratory, M., W., F., 8:00-10:00.

Second division arranged on consultation.

2. Electricity, Magnetism, Sound and Light.

Text-book: Millikan and Mills, "Electricity, Sound and Light."

Second semester. Five hours as above.

3. Advanced Course in Heat. (Thermodynamics.) The aim of this course will be to give a comprehensive view of the science of heat in its theoretical and experimental aspects, consequently much of the recent work in this subject will be discussed. The laboratory exercises will consist of exact measurements in mercurial and air thermometry and calorimetry, determinations of the mechanical equivalent of heat, coefficients of expansion and conductivity, vapor pressures and densities, freezing and boiling points, and latent and specific heats. Particular attention will be given to the errors peculiar to heat measurements and the elimination of the same.

Prerequisite: Courses 1 and 2.

Text-books: Edser, "Heat for Advanced Students," and Poynting and Thompson, "Heat."

First semester. Four hours. T., Th., F., 11:15. Laboratory, M., 1:00-3:00.

4. Advanced Course in Light. Geometrical and Physical Optics will be treated in detail. Under the former head, some of the most important optical instruments will be studied; under the latter the wave theory of light will be developed. The work consists of lectures and recitations, with collateral reading, together with laboratory practice which is designed to follow and illustrate the subject matter of the class room.

Prerequisite: Courses 1 and 2.

Text-book: Edser, "Light for Students."

Second semester. Four hours. T., Th., F., 11:15. Laboratory, M., 1:00-3:00.

5. Advanced Optics. This course aims to be a practical and useful study of optics mainly from the experimental standpoint. Diffraction, dispersion, interference, and polarization will be discussed thoroughly in lecture and recitation, and this discussion followed by accurate measurements in the laboratory.

Prerequisite: Courses 1, 2, 4 and Calculus.

Text-book: Mann, "Manual of Advanced Optics."

First semester. Four hours. Th., 3:15. Laboratory, T., Th., F., 1:00-3:00.

6. Electrical Measurements. A laboratory course of systematic instruction in precise electrical measurements for students of Physics and Electrical Engineering.

Prerequisite: Courses 1, 2, and Calculus.

Text-books: Carhart and Patterson, "Electrical Measurements;" Parr, "Practical Electrical Testing in Physics and Electrical Engineering."

Second semester. Three hours. Laboratory periods arranged on consultation.

7. Mathematical Theory of Electricity and Magnetism. This course discusses the fundamental principles of the mathematical theory of electricity and magnetism and their more important applications. Particular attention is given to electrostatics, magnetism, electric currents, electrical units and the electro-magnetic theory of light.

Text-book: J. J. Thompson, "Elements of Electricity and Magnetism."

First semester. Three hours. T., Th., F., 2:15.

8. Alternating Currents. The aim of this course is to give a clear understanding of the principles of alternating currents as set forth in Franklin and Williamson's text-book on alternating currents.

Prerequisite: Courses 1, 2, 6, Calculus and Mechanics.

Second semester. Three hours. M., T., F., 3:15.

9. Colloquium. At the weekly meetings the students present before the class for informal discussion reviews of articles appearing in the scientific journals. The course also aims to teach the student the use of a reference library. Each student is required to prepare a bibliography of some one physical subject each semester.

Open only to students who take their major or minor in Physics.

Through the year. One hour. Arranged on consultation.

10. Course for Teachers. A course designed especially to meet the needs of students who expect to teach Physics in the secondary schools.

Prerequisite: Courses 1, 2, 3 and 4.

Second semester. Two hours, arranged on consultation.

PUBLIC SPEAKING

Miss Wyman

Public Speaking, as outlined under special departments, is credited as a college elective. The maximum of credit is eight semester hours.

MUSIC

Professor Meier

The Theory and History of Music, as outlined in the Conservatory Courses is credited as a college elective. The maximum of credit will be six semester hours.

THE COLLEGE AWARDS

DEGREES

Bachelor of Arts. The degree of Bachelor of Arts is conferred by the Board of Trustees, after recommendation by the Faculty, upon those candidates who have completed the collegiate requirements. These are as follows: The student must have a total credit of one hundred and twenty semester hours in the college courses, and he must present an acceptable thesis upon some theme related to the major subject of his course. The time required for the fulfillment of these conditions is usually four years. A student may sometimes shorten the requisite period of residence and study by securing credit for work satisfactorily performed during vacation, under supervision of the Faculty, or at another college. The semester hour means one hour recitation or one two-hour laboratory period per week for one semester.

Master of Arts. The degree of Master of Arts may be conferred upon any graduate of this College, or of any college offering substantially equivalent courses, who shall have completed an approved course of non-professional study sufficient to constitute an additional year of college work, one-half of which, at least, is in a single department or in closely allied departments. This work may be done during one year in residence at the College, or in the case of graduates of this College, during two years of non-residence. Examinations are

required in all work of the approved course, and a satisfactory thesis upon some phase of the leading subject of the course must be presented at least one month before the close of the college year. Fees for all special examinations and the usual fee for the diploma are required.

PRIZES AND HONORS

The following prizes are open to competition for the year 1908-9:

The James Prizes. These prizes are paid from the interest of a fund of \$1,500 given by Mrs. John W. James of Boston for the encouragement of English Composition in the College. Each prize will amount to about \$15; the second prize to \$10.

Prizes will be awarded the two successful contestants in the freshman class, on the basis of clearness of style, excellence in punctuation, in sentence and in paragraph structure, as shown in the manuscripts of the freshman year English exercises.

In 1909-10 these prizes will be awarded to members of the sophomore and junior classes. The assignment of the prizes will be based on excellence in writing, but the competing compositions may concern themselves with any subjects of general or academic interest. Sophomores or juniors who wish to become candidates for these prizes should hand their productions to either of the professors of English, on or before May 1, 1910.

Prizes will not be awarded in any class for inferior work, or if there are less than twelve contestants.

Class of 1891 Prize for Oratory. A silver cup, valued at \$65, upon which shall be inscribed from year to year, between 1906 and 1915, the names of the winners in the home oratorical contest. The cup is to be the property of the College and will be kept on exhibition in some suitable place. The winner in the contest of 1909 was John R. Jones.

Lewis Prize. This was established by Hon. J. T. Lewis of Columbus. The annual income of a fund of \$200 will be awarded to the student who prepares the best set of notes and drawings on the biological work of the freshman year. It will not be granted for inferior work. Awarded in 1908 to Miss Carolyn L. Nash.

Class of 1896 Prize. The income, about \$20, of the Memo-

rial Prize Fund of the class of 1896, will be awarded the successful contestant in a declamatory contest between members of the junior class each year. Awarded in 1908 to Miss Frances F. Sanford.

Prize Scholarship. A friend of the College has offered a prize to the student in the class of 1909 who shows the greatest proficiency and the best preparation for graduate study in any subject or subjects other than Mathematics or Science. The award will be made on the judgment of the Faculty who will take into account the general scholarship of the student and his thesis. The prize is intended only for those who expect to do graduate work and is sufficient to pay all tuition charges at the University of Wisconsin or the University of Chicago. Candidates for this prize should make application to the Registrar by May 25th of each year.

Starr Prizes in Chemistry. Mr. W. J. Starr, of Eau Claire, offers two cash prizes of \$15 and \$10, respectively, to be awarded for the year 1908-9 to the students who attain first and second rank in the first year's work in Chemistry. In 1907-8 the prizes were awarded to Robert N. Gibson and Leslie E. Frost.

Sampson Prize in Chemistry. Mr. Bennett E. Sampson, of South Byron, offers a cash prize of \$10 for the year 1908-9 to the student attaining the highest grade in the second year's work in Chemistry.

Starr Prizes in Physical Training. These prizes were offered in 1907-8 by Mr. W. J. Starr of Eau Claire. The contest was open to all men in the College. The prizes were awarded to those making the greatest progress during the year in size, strength and symmetry and in development toward the normal standard. The Physical Director, according to the conditions of the prize, made careful physical examinations and measurements according to the Sargent method at the beginning of the year and again near the close of the year. On the basis of results so obtained, three prizes of \$25, \$15 and \$10 were awarded in 1908. The winners were Christopher E. Laugeson, Clarence Winneman and Howard Anderson.

Department Fellowships. The head of each department has the privilege of recommending, for ratification by a vote of the

entire Faculty, one advanced student of high standing as Fellow in the department. The Fellows for the year 1908-9 are as follows:

Biology.....	John N. Loshinski
Chemistry.....	Willard W. Hodge
English.....	Bernice E. Gibson
Mathematics.....	Albert E. Broker
Physics.....	Otto J. Zobel

The Rhodes Scholarships. In order to keep this well-known bequest before the minds of present or prospective students, it is briefly mentioned here. Circulars of full information can be obtained at the registrar's office. Any male student, who is a citizen of the United States and unmarried, not less than nineteen nor more than twenty-four years of age, and who has reached the end of his sophomore year of study, may be a candidate for one of the Wisconsin scholarships. This insures to the winning contestants among the schools of the State a three-year residence in Oxford University, England.

All competitors must be prepared to take an examination in the following subjects: Arithmetic, the Elements of Algebra or the Elements of Geometry, Greek and Latin Grammar, translation from English into Latin, one Greek and one Latin book from authors such as Caesar, Cicero, Livy, Horace, Virgil, Homer, Xenophon, Plato, Sophocles, Euripides, and Demosthenes.

University Fellowship. The University of Wisconsin, through its President, has extended to Ripon College an invitation to appoint one of its graduates each year to a Fellowship in the University. The value of this Fellowship is \$225 a year. The Fellowship for 1908-9 was awarded to Mr. John Dexter.

THE COLLEGE ADMINISTRATION

GOVERNMENT

Training in self-government is an important factor in education. To this end each dormitory has its own house committee and the College Commons is managed by the Co-operative Dining Association. The College Senate represents the student body in matters of general welfare. At the beginning of the year each new student is assigned to a member of the

Faculty whose duty it is to advise the student in regard to his studies, to give attention to deportment and to attendance upon all regular exercises. The various activities of the students are supervised by the proper committees of the Faculty.

THE COLLEGE YEAR

The College year is divided into semesters. For the coming year, the first semester begins on September 14, 1909; the second on January 31, 1910. Students may enter College at the beginning of the second semester, registering in any courses which begin at that time.

Besides certain of the usual legal holidays, there are two longer vacations during the College year; one of two weeks at Christmas, and another of one week at Easter. The Christmas vacation for this year begins at 4:15 P. M. Tuesday, December 21, and closes at 8 A. M. Thursday, January 6, 1910. The spring vacation for 1910 extends from 4:15 P. M. Tuesday, March 22, to Thursday, March 31, at 8 A. M.

RECORDS

The Faculty keep a record of the work done by each student, based upon the character of the recitations, accuracy of the laboratory and research work, and regularity of attendance.

EXAMINATIONS

The student's grade is determined on the basis of the class room work with the added test of examinations at the end of each semester. A permanent record of the entire work of each student is made at the close of each semester.

A student who is absent the last recitation period preceding the Christmas or Easter vacation, will not be allowed to take the final examination in the subject missed, but may take it when the next regular examination in the subject is given.

No regular class examinations occur just before Christmas, and no new classes are formed immediately after the Christmas vacation. For special examinations, a fee of one dollar, payable at the College office, is charged.

BUILDINGS AND EQUIPMENT

THE COLLEGE BUILDINGS

Ingram Hall, named after one of the principal donors, Mr. O. H. Ingram of Eau Claire, was completed in 1900. The laboratories and lecture rooms of the different scientific departments are on the first and third floors of this building. The other lecture rooms are on the second floor, and have convenient access to the College Library and Reading Room.

East College was the first building on the campus. Formerly it was used chiefly for dormitory purposes. It has been entirely remodeled and now contains the administration offices, the chapel, the studios and practice rooms of the schools of Music and Art. The Young Women's Christian Association also has its room in the building.

Middle College, now known as Smith Hall, in memory of the late Elisha D. Smith of Menasha, was opened as a dormitory for men in 1903. It is finished throughout in hardwood, is heated by steam, and lighted by gas and electricity. Some of the suites are arranged for two or three students, and consist of a central study room, with a bedroom and wardrobe on each side. Others are arranged for one occupant, and consist of a single study, bedroom and wardrobe.

Besides the student apartments, this hall also contains a reception room, guest room, hospital, and in the basement an excellent bowling alley. The reception room is opposite the main corridor. It is furnished in mission style; has a large, open fireplace, and is supplied with a selection of the current magazines and newspapers. The hospital rooms, furnished by the class of 1902, are pleasantly situated on the top floor, away from all noise. They consist of a room for the patient, and one adjoining for the nurse; both rooms are furnished for use in any emergency. The bowling alleys, in the basement, are of the Brunswick-Balke-Collender Co.'s make and are kept in good condition. On the whole there is no more completely equipped dormitory in the state than this one.

West College is now the College Commons. By means of funds provided by the Alumni the first floor has been made into a thoroughly equipped modern dining room. The rooms on the second and third floors are occupied by students.

The Coöperative Dining Association which has charge of the Commons provides a most excellent quality of board at small cost. The dining room is large, finished in oak, is well lighted, and has two open fireplaces. There are ample cloak and waiting rooms and the kitchen and serving rooms are models of convenience, making it possible to serve the best meals at the lowest expense. This new Alumni Hall adds much to the comfortable living of the students.

Bartlett Cottage, the Dormitory for women, named in honor of the late Sumner Bartlett of Oshkosh, is situated at the Southwest corner of the campus, just opposite the President's house. It is steam heated throughout and is supplied with hot and cold water. The suites for students consist of a study and bedroom, with the chief pieces of furniture. In addition to these, the building contains a reception room and library, a guest room, and also a kitchen and dining room for occasional use. The reception room is at the left of the entrance corridor; this leads into the house library containing current periodicals, a piano, and furnishings which add to the home-like atmosphere of the building.

Dawes Cottage. This is a small frame building now used as a dormitory for men.

Society Hall. The Old Chemical Laboratory, vacated when Ingram Hall was built, has been remodeled for other purposes. The north room is used for band practice, for debating societies and other men's clubs, on permission from the college office. The south room is used by the department of Mathematics, and is well equipped for the work of mechanical drawing. The office of the Mathematics department is in this building.

The President's House. The first President of the College, Dr. Merriman, built for himself a large house just south of the College Campus. This house is now the property of the College. It is opened freely during the year to Faculty and Students.

THE COLLEGE EQUIPMENT

The College Library occupies large central rooms on the first and second floors of Ingram Hall. The main reading room is on the second floor, and there is also a reading room on the first floor in connection with the stack room. The library is

lighted throughout by both gas and electricity and has perfect daylight exposure.

The library, according to the latest accession number, contains 17,484 volumes, exclusive of pamphlets, of which there are about 2,500. This does not include books added after May 1, 1908. It is made up of the libraries of the different departments. The aim of the College in regard to the library has been to get the best books by the best men. The result is an excellent working library, containing standard editions, critical works, books of reference, bound periodicals, etc. There are also several rare and valuable original copies from the early seventeenth and eighteenth centuries, and a few transcripts and reprints of works of earlier date. The library has nearly complete bound sets of the standard American and British magazines, and receives nearly all of the leading journals of a professional or technical character.

In addition to the above library and reading room facilities on the campus, students have access to the city library, now in the new Carnegie building, one block from the campus. The college library and the city library are largely supplementary, the former being strong in works of reference, the latter naturally furnishing books of more general interest. Both are open with a uniform rule to students and citizens.

The Department of Biology occupies the east end of the first floor of Ingram Hall. Its equipment comprises two laboratories for Anatomy, one for Bacteriology and one for Physiology. All are equipped with the best and newest apparatus. The vivarium and the injection rooms are in the basement. Adjoining the laboratories is the lecture room, arranged conveniently for the work. Storage and preparation rooms adjoin. The equipment increases yearly, and includes, among the various pieces of apparatus, physiological instruments, such as kymographs, capillary electrometers, moist chambers, rheocords, etc.; microscopes, compound and dissecting, camera lucida, paraffin bath, centrifuge, incubator, etc., besides numerous tanks and aquaria with running water. There have been lately added eight new Leitz microscopes of the latest pattern. These were made especially for Ripon College. The department has also increased its efficiency by securing a new rotary microtome for cutting sections for the microscope, and a new electrical clock for timing delicate experiments.

The Department of Physics is located in the west end of the first floor of Ingram Hall, and occupies the following: A laboratory for electricity, magnetism, and mechanics, one for heat, molecular physics, and sound and a dark room, besides an office and lecture room adjoining. The electrical laboratory is furnished with four slate-capped piers brought up from the foundations. These are of great value for delicate work where all jarring effects must be avoided. A good deal of apparatus has been recently added to the equipment of the laboratories. It includes an American miliammeter, a ballistic pendulum for measuring elastic and inelastic impacts, a cathetometer of the best type for measuring vertical distances, two ballistic galvanometers, Michelson's interferometer, and a spectrometer with polarizing attachments. The equipment of this laboratory also includes a successful wireless telegraph instrument made by one of the students. The laboratory for heat, molecular physics and light is equally well equipped.

The Department of Chemistry occupies the third floor of Ingram Hall; it has a large lecture room with a stock room in close connection. The stock room is conveniently arranged for chemicals and apparatus. Across the hall are the office library and balance room and the laboratories for general chemistry, qualitative, and quantitative analysis. There are also laboratories for organic chemistry and for private research. All laboratories are supplied with hoods and with individual desks, and each desk is furnished with lockers, gas and water. The lecture room has every facility for demonstration and the department is well equipped throughout.

Central Heating Plant. A complete central heating plant has recently been installed. What is known as the vacuum system is used, insuring prompt supply of steam in every room of the eight buildings on the campus. The system results in increased comfort in the buildings, and in a large saving in cost. The steam supply pipes connecting the various buildings with the boilers, are so thoroughly insulated in the conduits, that the waste from radiation is reduced to a minimum. The boilers carry high pressure steam, and there is room in the boiler house for installations of dynamos for the production of light and power. This heating system has proved a success from every point of view.

Athletic Equipment. The success of the athletic manage-

ment is shown in the winning teams in various intercollegiate events, and in the improved health of the individual students. It must be borne in mind that thorough management of physical training and of athletics, even with limited gymnasium facilities, may accomplish great results. By placing the gymnasium work and the training of all teams under the care of a thoroughly trained specialist, who is a regular member of the College Faculty, athletic training has been developed to a high degree of efficiency.

The college is fortunate in possessing an excellent athletic field. In the past year a quarter-mile cinder track has been built on the field. No expense has been spared in the construction of the track, and as a result it compares favorably with any in the Middle West. There is also ample space in the field for football and baseball. The field has the added advantage of being near the railroad stations and the college campus.

In the near future a new gymnasium will be provided. In fact, a liberal subscription has already been raised for this purpose. The enthusiasm and generosity of students, alumni and friends will make the new building a reality in a year or two.

Archaeological Collections. The departments of Latin and Greek possess an unusually fine collection of archæological material. There are several thousand carefully selected photographs and slides, illustrating Greek and Roman history, geography, life and art. Also a small but carefully chosen collection of antiquities of special interest to students of the classics. There are 250 different Roman coins of the most important reigns of the Empire; more than fifty terra cotta lamps illustrating all the types, many of which are figured; Etruscan, Greek and Roman vases dating from 750 B. C. to about 300 B. C.; bronze fibulæ, keys, letter stamps, bone stili, spoons, dice, etc.; several fine specimens of glass from Greece and Italy; inscribed amphora handles and numerous other articles connected with the daily life of the ancient Romans.

The Rowlands Art Memorial Fund. The class of 1901 has provided a special fund, the interest of which is to be used as needed for art decorations. It is a memorial to Owen C. Rowlands, a former member of the class, now deceased.

Mineral Museum. The nucleus of this collection was given to the college by the Rev. Geo. W. Barber. It is named after

the donor, who, being an Amherst man, collected many of the specimens under Professor Shepard, of that school. This is supplemented by the New Orleans Collection, obtained through the influence of the Hon. E. D. Holton, of Milwaukee, from the New Orleans Exposition; and by the Armstrong collection of 500 minerals and rocks.

In addition to these collections is the "Educational Series of Rocks," furnished by the United States Government, and several valuable specimens from the mining regions of Wisconsin and Michigan.

Nearly 2,000 specimens in all are listed, coming from various parts of the world. Besides this central museum, there are numerous working sets for use in the classes of mineralogy. These sets include hand specimens for study and tubes of powdered mineral for blow-pipe analysis.

Biological Museum. This contains a collection of invertebrates and vertebrates systematically arranged. The study of the few typical forms of animals studied in the laboratory can thus be supplemented by an investigation of the greater variety of forms to be found in the museum.

An interesting and valuable part of the exhibit is the Congdon collection of birds' eggs. These eggs, representing a large amount of research carried on in Wisconsin and Canada, were collected by Russell T. Congdon, of the class of 1903.

THE COLLEGE LIFE

STUDENT FELLOWSHIP

It is one of the inherent advantages of colleges of the size of Ripon, that students are brought into closer relations with their instructors, and into sympathy with one another. The college is a social democracy. In class room, at the commons, in the dormitories and on the campus the equal rights and equal privileges of all students are fully recognized.

SOCIAL LIFE

A wholesome social atmosphere pervades the institution. This not only affects the life of the dormitories, but also promotes the social spirit between student and student and between student and faculty. Class or college functions,

through the year, sometimes initiated by the students, sometimes by members of the faculty, make the year as a whole contribute largely to the social enjoyment and culture of the students.

The management of the dormitories is largely in the hands of the students living in them. The occupants of each hall elect annually from among their number a board of control, known as the House Committee, which is responsible for the regulation and direction of all internal affairs in accordance with the will of the majority. In this way, the dormitory becomes a social unit, and differs from a club or fraternity only in that it insures the finest sort of student democracy.

The faculty committee on dormitories acts as an advisory board for the house committees.

RELIGIOUS LIFE

The college is distinctly Christian and regards the development of Christian character as its greatest work. It is unsectarian in its management. On entrance the student names the church of his preference. Lists are sent to the pastors of these churches. Every student is given a definite personal welcome in the church of his choice. The chapel prayer service is held four days each week and all students are required to attend. All other services are voluntary. The prayer meeting on Tuesday evening, the Association meetings on Sunday and Thursday afternoons, and the Bible study class are under the management of the Christian Associations. These associations send delegates to the various state and national conferences. At the beginning of the college year members of the associations meet all trains and welcome new students.

STUDENT ORGANIZATIONS

THE YOUNG MEN'S CHRISTIAN ASSOCIATION

During the formative period of college life there is great necessity for symmetrical development, for a balancing of intellectual with spiritual growth. The College Y. M. C. A. recognized this necessity and organized for the purpose of aiding this harmonious development. In opening its doors to all young men of the college, the association aims to extend

its sphere of influence as far as possible. Although distinctively a student organization, the association has the active support of the faculty, some of them being members and many leading in the meetings. In order to keep in touch with the larger movement, the College Y. M. C. A. aims to be represented regularly at the state conventions and also at the yearly conference of college men held at Lake Geneva.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION

The object of the Young Women's Christian Association is the development of Christian character in its members, and the prosecution of active Christian work, especially among the young women of the institution. The active membership of the association consists of women connected with the college, who are members of the Christian churches. Any woman in the college may become an associate member. The association is affiliated with the international organization.

THE ATHLETIC ASSOCIATION

The College Athletic Association is responsible for the maintenance of the various teams, the selection of officers and managers. To secure steadiness and business method in the management, general supervision of all athletic affairs is placed in the hands of a Board of Control, representing the faculty, the alumni and the students. The athletic director is one of the faculty members of this board and all meetings are held in his office.

At the request of the student body, a fee of seventy-five cents per semester, incorporated in the regular incidental fee, is collected for the support of athletics by the college Treasurer, who is also Treasurer of the association. An admission fee is charged at all home contests. The receipts from such admission, together with the student fees, support the association's work and insure suitable equipment for all the college teams.

THE ORATORICAL UNION

The Oratorical Union, under its present constitution, controls Oratory, Debate, and the "College Days." Two members of the faculty, together with the President, Vice-President, and the Secretary of the Union, the Editor and Business

Manager of the College Days, and the Chairman of the Debate Committee, constitute a Board of Control, which has general direction of all affairs. The Union holds membership in the Wisconsin Inter-Collegiate Oratorical Association, and also in the Inter-State Oratorical Association.

ATHENIAN SOCIETY

The renewed interest in debate this year has led to the revival, under a new constitution, of the Athenian Society. The new organization meets for debate once a week in the Athenian Hall.

COLLEGE DAYS

The College Days, a monthly publication, issued by a board of editors elected annually by the student body, is now in its forty-first year. It aims to record the various phases of campus life. To this end it has published recently several articles by professors and students, either the records of personal experiences or the results of special investigation. It has aimed to keep in touch with sister colleges, has noted the goings and comings of alumni, and has endeavored to record, in lighter vein, the pleasures and pastimes of the students.

THE COLLEGE BAND

The College Band, organized one year ago, now includes twenty-four pieces. New uniforms have been provided for the members. The services of the players are in frequent demand. They meet for practice each week at Athenian Hall.

RIPON COLLEGE GLEE AND MANDOLIN CLUBS

Ripon has the reputation of having one of the best Glee Clubs in the Middle West. Twenty or twenty-five concerts are given throughout the state during the concert season, which begins about the middle of March. Membership in the Glee and Mandolin Clubs, which, combined, consist of about thirty active members, is obtained only by competition. The clubs are distinctly student organizations.

THE CO-OPERATIVE DINING ASSOCIATION

This association has charge of the dining room and furnishes board at reasonable cost for all who desire to live at "The Commons."

DEPARTMENT CLUBS

The literary life of the students has recently manifested itself in clubs connected with the different departments. Four such clubs are now in successful operation, the "History Club," the "Science Club," the "German Club," and the "Literature Club."

THE CRIMSON

The Junior Class publishes a Ripon College Annual known as "The Crimson." It is a book of college life, dealing, among other things, with the faculty, class and student organizations, social life, and athletics.

GENERAL INFORMATION

STUDENT EXPENSES

The charge to the student is but a small part of the cost to the college. The balance of the cost is met by the income of the endowment fund, and by gifts from trustees and other friends of the college.

During the last few years Ripon College has spent a large amount of money in improving the buildings and the furnishings, and in increasing the equipment in the Library and in the Science Laboratories. Of even greater value to the student is the fact that the faculty has been increased, and the courses of instruction enriched. For this reason, the incidental fee was slightly increased on September, 1908. In view of the value of the courses of instruction, the fine equipment in Laboratories, Library and Lecture Rooms, and the thoroughly modern conveniences in Dormitories and Commons, the increase in cost is small, and the total cost to the student exceptionally low.

Tuition, per semester.....	\$10.00
Incidental Fee, per semester.....	20.00

Room Rent

Smith Hall and West College, Dormitories for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester	\$20.00 to 30.00
Dawes Cottage, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester.....	18.00

Bartlett Cottage, Dormitory for women, with steam heat, hot and cold water, furnished rooms, electric lights in each room, per semester 24.00

Board

Board is furnished in the Commons Building. This building is furnished with every convenience in dining room, kitchen and store-rooms, for giving the best board at a reasonable price. The college authorities give special attention to this Commons, audit the books and give general supervision to its affairs, but the actual management is in the hands of the Students' Co-operative Dining Association. They elect their own officers. Board is furnished at the lowest possible figure, without profit, and the cost divided equally. During the years 1907 and 1908, board has been furnished at a cost of \$2.75 per week.

There are other boarding clubs and private houses that will furnish board to students at reasonable prices. Lists of these can be had at the Treasurer's office, at the beginning of the year.

All bills for tuition and room rent must be paid at the beginning of each semester. Room rent and laboratory fees cannot be refunded to students who leave dormitories or laboratory classes during the semester. Absence for good reason for more than one-third of a semester will be the only cause for refunding any part of the tuition, or incidental fee.

Dormitory rooms are furnished with all necessary heavy furnishings. Students will bring their own bedding, pillows, rug for the floor and such ornaments as they desire for their rooms. All buildings are heated with steam, furnished with hot and cold water, gas and electricity. Price of room rent in dormitories for men does not include cost of light in the rooms. Price charged in Bartlett Cottage includes electric light in each room.

The total cost for the student varies. The minimum expense will be within the reach of students of limited resources, while others may easily make provision for themselves in accordance with their means.

Laboratory Fees per Semester. The cost of material in the various laboratories is charged as follows:

Physics Laboratory, per unit hour.....	\$1.50
Bacteriology and Embryology.....	7.50
Anatomy, Histology, Advanced Botany.....	3.00
Physiology	1.50
Chemistry, four hour course.....	6.00
Mineralogy	2.50
Archæology	1.50
Breakage Deposit in Chemistry.....	3.00

STUDENT AID

A standing committee of the faculty acts as an employment bureau and is always ready to assist students desiring employment. Faithful, worthy students (who are willing to work) need not abandon their course of study for lack of money. Many of the most successful graduates of the college have helped themselves in this way. Advanced students of high standing have frequent opportunity to do private teaching, and citizens of the town are ready to employ students in various capacities.

There are a few scholarships to be granted as a reward of merit to successful students.

SPECIAL FUNDS AND SCHOLARSHIPS

The College has available several funds for use as indicated below. Any one desiring to be a candidate for the benefits of any of these funds should write to the Registrar for blanks to make application therefor. These applications will be considered by the faculty committee on scholarships and the benefits will be distributed where they will appear to accomplish the greatest good.

Rufus Dodge Fund. The late Rufus Dodge of Beaver Dam left the college a legacy of \$9,000 as a permanent fund to aid young women of limited means in getting an education. The interest of this fund is available each year for distribution among such students for this purpose, according to their need.

The Bennett Scholarship. The sum of \$500, bequeathed by the late Philo S. Bennett, of New Haven, Connecticut, provides a fund "to aid poor and deserving boys to obtain an

education. It is understood that the boys receiving the benefit of this fund shall be in honor bound to return to the college the money so advanced as soon as they can conveniently do so after leaving college, and the money so returned shall be used for the aid of other boys, in like manner as it was used at first."

Sumner Bartlett Scholarship Fund. The sum of \$1,000 was given by Mrs. Lucy Bartlett, of Oshkosh, Wisconsin, for a permanent scholarship. The condition of the scholarship is that one student at a time, forever, shall be admitted to Ripon College free of tuition, such student to be designated by the college faculty and to be one studying for the gospel ministry or for special missionary work.

Rev. E. W. Cook Scholarship Fund. The sum of \$500 was given by the Rev. E. W. Cook, of Ripon, for the purchase of a scholarship. Free tuition is to be granted to one student at a time from the income of this fund, in perpetuity.

Van Vechtin Fund. This was the gift of O. W. Van Vechtin, who presented to the President \$100 as a loan fund, to be under the control of the President, and to be loaned to worthy students and to draw no interest while the borrowers are in college, but from date of leaving college to draw interest at the legal rate. The interest accruing may be added to the fund or given to students at the President's discretion.

Whitcomb Scholarship Fund. \$1,000 was given by David Whitcomb of Worcester, Massachusetts, for the purchase of a permanent scholarship, the income of which fund is to be used annually to aid needy and worthy students. By resolution of the Board of Trustees, June 20, 1885, the income is appropriated to payment of necessary term bills of young men who shall be nominated by the faculty for such credit, the sons of missionaries and ministers to be preferred, and the amount of appropriation to each pupil to be determined by the faculty.

Pinkerton Fund. This was collected by the Alumni Association as a memorial to M. W. Pinkerton of the Class of 1868. For some years it has been invested by the college Treasurer, the college having no responsibility or power with reference thereto except to invest or pay over the interest as collected to the Alumni Association. A standing committee of the Alumni reports each year to the association. The interest, at present, is available only for children of missionaries.

COMMITTEE ON RECOMMENDATIONS

The committee on recommendations renders assistance to graduates seeking employment and to employers. No charge is made for this service and the committee makes special effort to find the position for which the applicant is prepared. School boards and others employing college graduates can depend upon the faithfulness of the recommendations given.

The call for college graduates as teachers is increasing each year. All graduates and friends of the college are asked to co-operate with this committee in notifying it of vacancies.

THE TRAINING OF TEACHERS

The attention of students intending to prepare for teaching in high schools and academies is called, in particular, to the courses offered by the Department of Philosophy and Education, and also to the special Training Courses offered in different departments.

Each year a considerable number of the graduating class seek positions in the high schools of Wisconsin and other states. A large number of Ripon College graduates are now to be found in these schools and invariably they have met with success. This is due to the fact that courses of instruction are given by different members of the faculty to prepare for this work and to make the usual errors of young teachers less likely to occur.

In the department of Philosophy and Education thorough courses are given in the Principles, History and Philosophy of Education, together with a course in Secondary Education, designed for those who plan to become high school teachers.

In the departments of Latin, German, English and Physics every student who plans to teach these languages receives special attention in Teachers' Training Courses in which reviews are made, the real teaching experience under the guidance of the heads of the departments is secured.

It is the intention of the faculty to extend this work as rapidly as may be, and give the best of normal methods to those who desire them. Fellows are appointed who receive special training in return for such service as correcting papers, in this way getting valuable experience in the actual work of a teacher. The library, too, offers opportunities for the study of library methods.

To students who have taken these training courses assistance is given, during their senior year, that they may secure good positions. The efforts of the faculty have been remarkably successful in the past and graduates are to be found as teachers or principals in many of the important cities of Wisconsin, Minnesota and other states. While no guarantee can be made, it is safe to say that every student who proves worthy will secure a position. Superintendents and principals, under recommendation, are constantly writing for candidates. Standing the character of the work done and the method of

INTERSCHOLASTIC MEET

Each spring there is held at Ripon under the management of the college an Interscholastic Athletic meet. The participants in this contest are invited from among the various high schools and academies in the central part of the state. To the winning school a silver cup is given as a trophy. When this has been successfully defended for three years it passes into the permanent keeping of the winning school. Special trophies are also given to individual winners.

SPECIAL DEPARTMENTS

CONSERVATORY OF MUSIC

Theo. F. Meier, Director

The work of the Conservatory is complete in scope and systematic in arrangement, and the equipment is in every way adequate to the highest standards of musical instruction. The following are the courses offered:

1. Piano.
2. Violin.
3. Voice Culture.
4. Pipe Organ.
5. Theory and History of Music.

Students may take one or more of these courses, but such work will be credited as either:

- I. A course of General Music Instruction, or
- II. The Artist's course, leading to certificate of graduation.

Course I. This course is open to those wishing to pursue elementary musical study or to prepare for the more advanced

courses offered. No previous knowledge of music is required. No diploma will be given in this course, but those who have done creditable work will be given a certificate of merit.

Course II. Students taking this course are required to pursue the study of harmony and musical history in connection with their main work (Piano, Violin, Voice Culture, or Organ). The time required to complete this course is determined by the needs and the advancement of the individual student. All students must have some ability on the piano, and a high school education, or its equivalent, to graduate.

NORMAL TRAINING FOR PIANO TEACHERS

The Conservatory also provides a course in Normal Training for advanced piano students who wish to secure a teacher's certificate. This course consists of a series of talks on the art of teaching piano technic and the æsthetics of the piano; it affords at the same time, as a most valuable feature, opportunity to teach and of thus putting into practice the theoretical knowledge gained.

PIANO, VIOLIN AND ORGAN

Professor Meier

The material for study and musical recreation is chosen with the greatest care and with a view to having a good foundation for advanced and artistic work. All the details regarding correct position of the player, and his hands and fingers receive the most careful attention. Great stress is laid upon the kind of practice which will tend to place the technic upon a good, sound basis. To do this the needs and the disposition of the individual student must in every case suggest the material to be used. This includes the best musical literature of the old as well as of the modern school. As the needs of the students vary considerably, it is impossible to prescribe a definite course of work. In all cases a great many works must be studied in order that a graceful, intelligent and expressive style of playing may be acquired.

Ensemble Playing. With the advanced students in piano and violin playing, classes are formed for the study of the standard compositions in Chamber Music. Most valuable experience is gained in playing with others and in interpretation,

that can be acquired in no other way. There is no charge for this work.

The Orchestra. The Conservatory Concert Orchestra affords the students an opportunity of becoming familiar with some of the best orchestral works, and most valuable experience in orchestra playing.

THEORY AND HISTORY OF MUSIC

Professor Meier

The course in theory includes Harmony, Counterpoint, Canon and Fugue, Musical Form and Analysis, and Musical History.

VOICE CULTURE AND THE ART OF SINGING

Adele Bishop Medlar

The study of singing with its broadening interests is becoming a matter of more than ordinary importance. The voice, the universal vehicle for the expression of thought and emotion, can only attain its most beautiful development in the art of singing. Through correct breathing and proper breath control only, can one obtain the fullness and purity of tone so requisite to the singer.

The production of pure and resonant tone is the purpose of this course of instruction. The work is broadly based on the best methods of the old masters. Especial attention is also devoted to distinct and easy enunciation and artistic interpretation.

The general course will include breathing exercises, tone placing, solfeggio, vocalises, study of songs, and of oratorio and opera. A knowledge of Italian, French or German is recommended.

SIGHT SINGING AND CHORUS WORK

Opportunity is furnished to practice Sight-singing. As all absolute, or instrumental, music is based on singing, it is expected that all music students will avail themselves of this opportunity.

EXPENSES

The year for the Conservatory pupils is divided by the Christmas and Spring vacations into three terms of fourteen, twelve and ten weeks each. Private lessons are thirty min-

utes in length. Cost of instruction can be lessened by students joining in classes of three. These classes are given one hour, each student receiving twenty minutes undivided instruction and what he may gain from the remaining forty minutes given the other two students. Students are in most cases advised to take two lessons each week. This insures continuity in the work and the most satisfactory results. Students taking two private lessons per week are admitted to a class in Harmony without extra charge. Private lessons in Theory are charged at the same rate as other private lessons.

Tuition is payable one-half at the begining and the remainder at the middle of the term. Two lessons per week are given unless otherwise stated. The fall term of fourteen weeks begins September 14, 1909.

Piano, Voice, Violin and Organ

Private lessons	\$35.00
Classes of three, each.....	24.00
Private lessons, one per week.....	21.00
Theory and History of Music, one hour lesson per week, in class of six or more, each.....	10.50
Sight-singing in class, and students taking other work in college, each.....	2.50
To students not taking other work, each.....	6.00
Rental of Instruments:	
Piano rent, six hours per week.....	3.50
Rent of pipe organ, three hours per week.....	4.20

For the Winter and Spring terms of twelve and ten weeks, respectively, the tuition is computed on the basis of the above table.

Good elementary piano instruction for beginners is provided at one-half the above rates. Miss Wilkes, a graduate student of the Conservatory, gives these lessons. The work may be regarded as preparatory to the course for graduation.

A discount is also allowed on elementary violin instruction.

Non-resident music students are under the same regulations as students in other departments of the college.

New students may enter at any time, without loss, as most of the instruction is private.

No deduction is made for absence from lessons, except in cases of protracted illness, in which case the School will share the loss equally with the pupil.

Students wishing to perform in public must consult the teacher.

All pupils are required to be present at each recital, concert, and lecture, unless excused by the Director.

Students of the Conservatory have use of the college dormitories and of the college commons, where good rooms and board can be secured at moderate cost.

DRAWING AND PAINTING

Miss Wyman

Freehand Drawing. Line and shadow in charcoal, pencil, pen and ink, and other mediums, from ornaments, casts, still-life and life. Students make application of the principles of perspective in sketching interiors and exteriors, followed by landscape composition and out-of-door sketching.

Design and Composition. Instruction is given in the fundamental principles of constructive, decorative and pictorial art. Students work out original studies in space and line composition, showing proper distribution of light and dark and harmonious schemes of color.

Oil and Water-Color. Color values and harmony are considered through the medium of water-color, using plant-form, still-life and landscape as subjects.

Ceramic Course. The instruction in practical ceramics will cover processes and materials, the practical applications of designs to different forms, the use of mediums and the method of firing.

Expenses of the course in drawing, painting and ceramics:

One lesson per week, each half year.....\$15.00

Two lessons per week, each half year..... 27.00

PUBLIC SPEAKING

Miss Wyman

The work in public speaking includes physical training, voice training and literary interpretation. The work is adapted to the needs of those who wish to teach, to do public reading or speaking, or who wish merely to increase their ability in reading and speaking. Certificates showing the amount of work done will be given to pupils who complete the work satisfactorily. The tuition, payable in advance, varies from \$20.00 to \$40.00 per semester. Private lessons may be had for \$1.00 each.

DEGREES CONFERRED JUNE, 1908

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Bessie Bly Barnes.....	Waupun
May Tillie Bumby, High School.....	Ripon
Henry F. Cope, Sec'y Religious Education Association.....	Chicago
Emily Smith Dexter, Teacher.....	Hackley
John Smith Dexter, Graduate Student.....	Madison
Frances Fordice, High School.....	Columbus
Blanche Mignon Gibson.....	Clintonville
Frank Loyal Haigh, High School.....	Menomonie Falls
Christina Russell Hargrave, Graduate Student.....	Boston, Mass.
Bird Blanche Hitchcock, High School.....	Stanley
William Louis Kaiser, High School.....	Fond du Lac
Earle Leslie King, High School.....	Ft. Atkinson
Edna Huntington Merrell, High School.....	Omro
Thomas John Owens, Graduate Student.....	Ripon
Newton Page Richardson.....	Menasha
Leonard George Schneller, High School.....	Wausau
Robert Griffin Sherwood, Instructor Ripon College.....	Ripon
Ruth Thompson.....	Minneapolis, Minn.
Gilbert Hambledon Tompkins.....	Ripon
Helen Pennock Toombs, Graduate Student.....	Boston, Mass.
Lee Benjamin West.....	Ripon
Lola Zobel, Instructor, Ripon College.....	Ripon

STUDENTS

S. denotes Smith Hall; B., Bartlett, and W., West Building.

GRADUATE STUDENTS

Albert Amundsen.....Pine River
Robert Griffin Sherwood, 513 Woodside Ave.....Ripon
Thomas John Owens, Fraternity House.....Randolph

SENIORS

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John N. Davis, Fraternity House.....Randolph
Pearl Davison, 15 B.....Milwaukee
George William Friedrich, Fraternity House.....Fond du Lac
Mabel Frost, 4 B.....Almond
Bernice Gibson, 11 B.....Clintonville
Ellen May Griffiths, 3 B.....Rosendale
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Helen Hughes, 309 Seward St.....Ripon
Paula Jussen, 306 Jackson St.....Ripon
Dena Lucinda Knop, 562 Metomen St.....Ripon
Jeanette Lamb, 216 Elm St.....Roberts
Oscar Henry Lichtenberg, 617 Ransom St.....Princeton
Harriet Jennie Morse, 540 Ransom St.....Ripon
Edna Rosina Murray, 15 B.....Ripon
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Walter John Reseburg, Fraternity House.....Kiel
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Edmund Adolph Yahr, 302 S.....Princeton
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Walter Glynn Butler, 13 W.....Montello
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Henry Ward Duel, 300 S.....Fond du Lac
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Joseph Ellsworth Sweetland, 1 W.....	Reedsburg
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Ralph Arna Holvenstot, 13 W.....	Marquette
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Haydn Anthony Johns, 19 W.....	Randolph
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Harvey Earl Larsen, 207 S.....	Clintonville

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William Frederick Meggers, 207 S.....	Clintonville
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Vine Miller, 426 Ransom St.....	Ripon
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Herman Carl Piehl, 15 W.....	Fond du Lac
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Roxie Walker, 3 B.....	Mineral Point
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Paul Whelan, 104 Tygert St.....	Mondovi
Harold Martin White, 205 S.....	Oshkosh
Louise Zobel, Blossom St.....	Ripon

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Asher D. Armstrong, 21 W.....	New Richmond
Charles Bullen Atwood, 206 S.....	Milwaukee
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Henry Edward Bilkey, 421 Watson St.....	Dodgeville
Myrtle Bletsoe, 14 B.....	Prescott
Agnes May Brewer, 6 B.....	Mineral Point
Roy Harry Cameron, 203 S.....	Oshkosh
Charles Martel Cochrane, 434 Thorn St.....	Fox Lake
Donald Witter Connor, 17 W.....	Marshfield
Claude Allen Crusoe, Grove St.....	Rhineland
Ovens Patterson Cuff, 4 W.....	Hortonville
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Clyde Darwin DuVall, 618 Watson St.....	Ripon
Ernest Emerson, 401 State St.....	Pewaukee
Sigrid Esbensen, 11 B.....	Osseo
Jesse Irving Etheridge, 12 W.....	Wild Rose
Donald Knox Ewing, 206 S.....	Milwaukee
Hugh G. Ewing, 206 S.....	Milwaukee
William Lee Finnigan, 1 W.....	Reedsburg
Frances Mary Foote, Watson St.....	Ripon
Raymond Alonzo Foss, 9 W.....	Eau Claire
Edward Daniel Fruth, 434 Thorn St.....	Fond du Lac
Frederick L. Gordon, 105 S.....	Oakfield
Harvey William Guetzloe, 4 W.....	Kiel
Jay Milton Hill, 6 W.....	Fond du Lac
Daisy Avery Hitchcock, 3 B.....	Red Granite
Edward Lynn Hitchcock, Dawes.....	Lake Mills

RIPON COLLEGE

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John Rodney Jamieson, Fond du Lac St.....	Poynette
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Louisa Johnston, 18 B.....	Waupun
Llewellyn Jones, State and Elm Sts.....	Cambria
William Francis Julian, Dawes.....	Portage
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George Henry Lewis, 305 S.....	Brooklyn, N. Y.
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Ethel Emma Lyon, 16 B.....	Sawyer
Julia Mitchell MacNeill, 18 B.....	So. Kaukauna
Eleanor Janet Merrill, 20 B.....	Green Bay
Boynton King Miller, 303 S.....	Fond du Lac
Eileen Agnes Miller, 7 B.....	Brandon
Allen Kenneth Murray, R. F. D. No. 17.....	Ripon
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Ruth Osgood, 16 B.....	Lake Mills
Glen Raymond Otis, 100 S.....	Appolonia
George Albert Page, 217 Howard St.....	Ripon
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DeWitt Stewart Pinch, 617 Ransom St.....	Rosendale
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George Friday Roberts, 434 Thorn St.....	Fox Lake
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Carleton Dexter Sperry, 107 S.....	Phillips
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John Owen True, 11 W.....	Portage
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Philip Woods, 303 S.....	Fond du Lac
Robert Vivian Young, 18 W.....	Beaver Dam

SUB-FRESHMEN

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Theodore H. Bast, Blackburn St.....	Rockfield

RIPON COLLEGE

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Gertrude Clark, 615 Grove St.....	Ripon
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George Briggs Drummond, 9 W.....	Eau Claire
Grace Ceil Dutton.....	Ripon
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Gertrude Gibson, 121 Thorn St.....	Bancroft
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Stewart Wilson Hughes, 309 Seward St.....	Ripon
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Edgar Thomas Jones, 613 Newbury St.....	Pickett
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Edna Winchester, 2 B.....	Malden, Mass.

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Frances Mary Foote, Watson St.....	Ripon
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Elsie Martha Huth.....	Ripon
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Grace Lucile Kern.....	Brandon
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Harold Jewett MacNeill, 103 S.....	So. Kaukauna
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Jesse Marion Reed, 434 Thorn St.....	Ripon
Jessye Elizabeth Ripley, 9 B.....	Oakfield
Grace Gardner Simpson, 20 B.....	Waupun
Carleton Dexter Sperry, 107 S.....	Phillips
Jessie Talbot, 21 B.....	Berlin
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Beryl Beatrice Thompson, 13 B.....	Grand Rapids
Florence Ella Wilkes.....	Ripon
Verle Eynon Williams, 205 S.....	Phillips
Jessy Agnes Wilson, 558 Newbury St.....	Ripon
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Erna Ida Zobel, 603 Watson St.....	Ripon

ART AND PUBLIC SPEAKING

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Howard Warren Anderson, 302 S.....	Eldorado
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William George Bate, 106 S.....	New London
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Mabel Smith Brooks.....	Green Lake
Delene Brown.....	Ripon
Allen George Burg, 520 Ransom St.....	Calumetville
Catherine Florence Callan.....	Ripon
William Jacobs Cotton, Dawes.....	Elgin, Ill.
Ovens Patterson Cuff, 4 W.....	Hortonville
Morgan Edwards, 300 S.....	Oshkosh
Florence Isabelle Eggleston, 527 Watson St.....	Ripon
Lloyd French, 614 Lincoln St.....	Frankville
George Friedrich, Fraternity House.....	Fond du Lac
Robert Newcomb Gibson, 208 S.....	Clintonville

Ralph Arna Holvenstot, 13 W.....	Marquette
Blanche Katherine Jones, 17 B.....	Wild Rose
John Richard Jones, Fraternity House.....	Milwaukee
Haydn Anthony Johns, 19 W.....	Randolph
Marie Helen Jussen, 306 Jackson St.....	Ripon
Martha Elizabeth Kempton, 10 B.....	Markesan
Anna Larkin, 222 Scott St.....	Rush Lake
Harvey Earl Larsen, 207 S.....	Clintonville
Robert Bruce MacDonald, 200 S.....	Grand Rapids
Harold Jewett MacNeill, 103 S.....	So. Kaukauna
Julia Mitchell MacNeill, 18 B.....	So. Kaukauna
Bessie Morse	Ripon
Harriet Jennie Morse, 520 Ransom St.....	Ripon
Edna Rosina Murray, 15 B.....	Ripon
Frank Marcel Nickodem, 8 W.....	Princeton
Edna May Oelke.....	Green Lake
Guy Arland Russell, 320 Thorn St.....	Ripon
Rena Belle Shuart, 10 B.....	Pleasant Prairie
Grace Staples	Markesan
Wilbert Smith, 201 S.....	Milwaukee
Joseph Ellsworth Swetland, 1 W.....	Reedsburg
Beryl Beatrice Thompson, 13 B.....	Grand Rapids
Earle Manton Wakefield, 108 S.....	Tomahawk
Emma Walker.....	Green Lake
Roxie Walker, 3 B.....	Mineral Point
Harold Wilkie, 107 S.....	Fond du Lac
Edna Winchester, 2 B.....	Malden, Mass.

SPECIAL STUDENTS

Joseph Daniel Brownell.....	Westfield, Mass.
Robert F. Merritt.....	Rosendale

SUMMARY

	Men	Women	Total
Graduates	3	..	3
College—			
Seniors	11	13	24
Juniors	35	11	46
Sophomores	32	13	45
Freshmen	60	21	81
Special	2	..	2
	—	—	—
	143	58	201
Sub-freshmen			41
Music			50
Art and Public Speaking.....			45
			—
			337
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John E. Jones, 1910.....	Treasurer

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Mabel Frost, 1909.....	Treasurer
Sigrid Esbensen.....	Pianist

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.....	Pearl Davison, Ethlyn Holt, Nellie Owens
Smith Hall.....	A. E. Broker, A. E. Schaar, W. J. Sizer, E. A. Yahr
West College.....	J. E. Swetland, R. A. Weir, L. N. Thompson

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Founded in 1873

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D. D. Sutherland, Fond du Lac.....	Trustee
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W. B. Geery, St. Paul National Bank, St. Paul, Minn...	Vice-President
Fred W. Rogers, Wells Building, Milwaukee.....	Secretary
Carroll Atwood, Wells Building, Milwaukee.....	Treasurer

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act of July 16th, 1904

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COLLEGE CALENDAR

1910

March	22, Spring Vacation begins 4:15 p. m.....	Tuesday
March	31, Spring Vacation ends 8:00 a. m.....	Thursday
June	1, Senior Theses due	Wednesday
June	12, Baccalaureate Sermon	Sunday
June	13, Annual Meeting of the Board of Trustees.....	Monday
June	14, Annual Meeting of the Alumni.....	Tuesday
June	15, Forty-fourth Annual Commencement.....	Wednesday
June	16, Summer Vacation begins	Thursday
September	13, Registration for the first Semester.....	Tuesday
September	14, Lectures and Recitations begin	Wednesday
November	23, Thanksgiving Recess begins at noon.....	Wednesday
November	28, Thanksgiving Recess closes at noon.....	Monday
December	22, Christmas Vacation begins 3:15 p. m.....	Thursday

1911

January	5, Christmas Vacation ends 8:00 a. m.....	Thursday
January	18, Registration for Second Semester	Wednesday
January	28, First Semester ends	Saturday
January	30, Second Semester begins	Monday
February	12, Day of Prayer for Colleges	Sunday
April	11, Spring Vacation begins 3:15 p. m.....	Tuesday
April	18, Spring Vacation ends 8:00 a. m.....	Tuesday
June	1, Senior Theses due	Thursday
June	11, Baccalaureate Sermon	Sunday
June	12, Annual Meeting of the Board of Trustees.....	Monday
June	13, Annual Meeting of the Alumni	Tuesday
June	14, Forty-fifth Annual Commencement	Wednesday
September	12, Registration for the first Semester	Tuesday
September	13, Lectures and Recitations begin	Wednesday

BOARD OF TRUSTEES.

Officers.

The President of the College, *ex-officio* President.

GEORGE L. FIELD, Vice President

SAMUEL M. PEDRICK, Secretary

ALBERT G. FARR, Treasurer

Term Expires 1910

O. J. CLARK, Retired MerchantRipon

GEORGE L. FIELD, President of First National Bank.....Ripon

FRANK K. SANDERS, Ph. D., D. D., President Washburn College
..... Topeka, Kansas

O. W. MOSHER, President of the Northern Grain Co..New Richmond

O. E. H. ZOBEL, Retired MerchantRipon

JAMES L. STONE, Cashier German National BankRipon

Term Expires 1911

WILLIAM J. STARR, Lumberman and Manufacturer.....Eau Claire

SAMUEL M. PEDRICK, Attorney-at-LawRipon

F. J. LAMB, Attorney-at-LawMadison

A. E. THOMPSON, Attorney-at-LawOshkosh

FRED W. ROGERS, Mortgages, Loans and Insurance.....Milwaukee

REV. L. H. KELLER, Pastor Congregational Church.....Fond du Lac

Term Expires 1912

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FREDERICK W. UPHAM, President of Board of Review, Cook
County, Ill., of Upham and Agler, of Wisconsin Oak Lumber
Co., and of City Fuel Co.Chicago

W. H. HATTON, Lumberman and ManufacturerNew London

ALBERT G. FARR, of N. W. Harris and Co., Bankers, New York
and Boston, and Vice President of the Harris Trust and Sav-
ings Bank, ChicagoChicago

D. D. SUTHERLAND, Attorney-at-LawFond du Lac

WM. R. DAWES, Cashier Central Trust Co., of Illinois.....Chicago

Standing Committees.

EXECUTIVE COMMITTEE—Messrs. Field, Pedrick, Farr, Clark, Zo-
bel, and Stone.

COMMITTEE ON INSTRUCTION—Messrs. Dawes, Farr, Sanders,
Starr, and Stone.

COMMITTEE ON GROUNDS AND BUILDINGS—Messrs. Farr, Zobel,
and Thompson.

AUDITING COMMITTEE—Messrs. Hatton and Sutherland.

COMMITTEE ON INVESTMENTS—Messrs. Farr, Clark, Field and
Pedrick.

COMMITTEE ON HONORARY DEGREES—Messrs. Ingram and Keller.

OFFICERS OF INSTRUCTION

FRANK MORTON ERICKSON, A. M. 529 Woodside Ave.
Dean and Willcox Professor of Classics.

A. B., Wabash College, 1892. A. M., University of Chicago, 1895.
Student of Archaeology, Athens, Greece, 1900. Teacher of Greek
and Latin, Highland University, 1892-94. Member Graduate School,
Harvard University, 1906-7. Ripon College, 1895.

EDWARD HUNTINGTON MERRELL, A. M., D. D., LL. D., 302 Elm St.
Professor of Philosophy, Emeritus.

A. B., Oberlin College, 1859; A. M., Oberlin College, 1862. D. D.,
Lawrence University, 1876. LL. D., Middlebury College, 1893.
Professor of Greek, Ripon College, 1863-76; President of Ripon
College, 1876-91; Professor of Philosophy, Ripon College, 1876-
1906. Professor Emeritus, on the Carnegie Foundation.

CHARLES HENRY CHANDLER, A. M. Smithville, N. H.
Professor of Mathematics, Emeritus.

A. B., Dartmouth College, 1868; A. M., Dartmouth College, 1871.
Teacher of Science at Kimball Union Academy, Meriden, N. H.,
1868-69. Principal of St. Johnsbury (Vt.) Academy, 1869-71. Profes-
sor of Mathematics and Physics, Antioch College, 1871-81. Ripon
College, 1881-1906. Professor Emeritus, on the Carnegie Founda-
tion.

MARY CORINTHIA HARWOOD, M. L. 121 Thorn St.
Professor of French and German.

B. L., Lawrence University, 1888; A. M., Lawrence University.
Student in France and Germany, 1891-93, 1901-2, 1904. Assistant
Principal, Traer (Ia.) High School, 1888-90. Instructor in French
and German, Grafton Hall, Fond du Lac, Wisconsin, 1893-94. Stu-
dent in France, 1907. Ripon College, 1895.

OLIVER JONES MARSTON, A. M. 302 Elm St.
Professor of History and Political Economy.

A. B., Greer College, 1898; A. M., Greer College, 1899. Graduate
Student, Johns Hopkins University, 1898-99. Graduate Student,
University of Wisconsin, 1899-1902. Instructor in History, Greer
College, 1897-98. Instructor in History, Ripon College, 1902-3;
Ripon College, 1903.

RIPON COLLEGE

JESSE FOX TAINTOR, A. B.616 Ransom St.

Professor of English Literature.

A. B., Ripon College, 1873. Andover Theological Seminary, 1875-78. Pastorates in Iowa, 1878-83. Rochester, Minn., 1886-1903. Graduate Student Chicago University, 1903, 1905. Ripon College, 1905.

WILLIAM HARLEY BARBER, B. S., A. M.120 Thorn St.

Professor of Physics.

B. S., University of Wisconsin, 1901. A. M., University of Wisconsin, 1909. Assistant Principal Ripon High School, 1901-4. Principal Ripon High School, 1904-5. United States Department of Commerce and Labor, Bureau of Standards, Washington, D. C., 1905-6. Ripon College, 1906.

ALBERT FRANKLIN GILMAN, A. M.406 Thorn St.

Professor of Chemistry.

S. B., Amherst College, 1897; A. M., Amherst College, 1901. Teacher of Science, Farmington, Me., 1897-98. Professor of Science, Dow Academy, Franconia, N. H., 1898-99. Professor of Chemistry and Physics, Maryville College, 1900-6. Graduate Student Harvard University, 1903. Student Chicago University, 1905-6. Ripon College, 1906.

FREDERICK WILLIAM LUEHRING, Ph. M.521 Woodside Ave.

Professor of Sociology, and Athletic Director.

Ph. B., Northwestern College, 1905. Ph. M., University of Chicago, 1906. Y. M. C. A. Training School for Physical Directors, 1903. Assistant in Physical Training, Northwestern College, 1903-4. Director of Physical Training, University of Chicago Settlement, Chicago, 1905-6. Graduate student University of Chicago, summer quarters 1906-7-8. Ripon College, 1906.

WILLIAM JAMES MUTCH, Ph. D.719 Watson St.

Professor of Philosophy and Education.

A. B., University of Wisconsin, 1882. B. D., Yale Divinity School, 1885. Ph. D., Yale University, 1894. Lecturer in Pedagogy, Yale Divinity School, 1900-2. Pastor of Howard Avenue Congregational Church, New Haven, Conn., 1885-1907. Ripon College, 1907.

HOWARD FRANK SHURTLEFF, A. M.Blossom St.

Professor of English Composition and Rhetoric.

A. B., Harvard, 1905; A. M., Harvard, 1907. Ripon College, 1907.

RIPON COLLEGE

GEORGE ADDISON TALBERT, M. S.122 Watertown St.
Professor of Biology.

B. S., Ohio Wesleyan, 1888; M. S., Ohio Wesleyan University, 1891; Graduate student, Johns Hopkins University, 1888-89. Berlin University, 1898-99. University of Chicago, 1899-00. Woods Hole Marine Laboratory, summers of 1893-94-95, and Leland Stanford Marine Laboratory the summer of 1897. Teacher of Biology, 1889-1902. Stevens Point Normal School, 1902-9. Ripon College, 1908.

JOHN MERRILL BRIDGHAM, A. M.719 Watson St.
Professor of Classics.

A. B., Bowdoin College, 1904. A. M., Dartmouth College, 1905. Instructor in Latin and Greek at Groton School, 1905-7. Graduate student, Chicago University, 1907-8. Instructor in Classics and Ancient History, Bowdoin College, 1908-9. Ripon College, 1909.

MARIE BAKER NICKELL, Ph. M.Bartlett Cottage
Associate Professor of History.

Ph. B., University of Chicago, 1901; Ph. M., University of Chicago, 1906. Instructor in History, Carroll College, 1901-1903. Instructor in History, Milwaukee Downer College, 1906-1908. Ripon College, 1909.

ELIZABETH BATTLE BINTLIFF, A. M.234 Elm St.
Professor of Music and Director of the School of Music.

Student, Oberlin Conservatory of Music. Organ pupil, Fenelon B. Rice and Clarence Eddy. Piano pupil, George W. Steele and William H. Sherwood. Theory pupil, George W. Chadwick and Fred-eric Grant Gleason. Studios in Janesville, Wis., and Chicago, Ill. Organist, St. Paul's Episcopal Church, Milwaukee, and Leavitt Street Congregational Church, Chicago, Ill. Professor of Music and Director of Conservatory of Music, Olivet College, 1893-1909. A. M. Olivet College, 1903. Ripon College, 1909.

HUGH PRATT KEAN, A. M.205 State St.
Professor of Mathematics.

A. B., Albion College, 1906. A. M., University of Illinois, 1909. Instructor in Mathematics at the University of Illinois, 1906-1909. Ripon College, 1909.

EMMA GERTRUDE SIMMONS, A. M.Bartlett Cottage
Associate Professor of French and German.

A. B., University of Wisconsin, 1905; A. M., University of Wisconsin, 1908. Teaching Fellow, University of Wisconsin, 1906-1908. Student at the University of Paris, 1908-1909. Ripon College, 1909.

RIPON COLLEGE

- TITUS EUGENE MERGENDAHL, B. S.122 Watertown St.
Instructor in Mathematics.
B. S., Tufts College, 1907. Instructor in Mathematics, Tufts College, 1906-7. Ripon College, 1907.
- EVA FLOY DAVIS, A. B.609 Newbury St.
Instructor in Latin.
A. B., Ripon College, 1904. Teacher of Latin and German in High School at Union Grove, Wis., 1905. West Green Bay High School, 1905-7. Ripon College, February 1, 1908.
- LOLA ZOBEL, A. B.Blossom St.
Instructor in German.
A. B., Ripon College, 1908.
- BURRELL OTTO RAULSTON, A. B.719 Watson St.
Instructor in Chemistry.
A. B. Maryville College, 1909. Graduate student, University of Chicago Summer Quarter, 1909. Ripon College, 1909.
- ESTELLA HALL READE302 Elm St.
Instructor in Vocal Music.
Pupil of William H. Stockbridge, Portland, Me.; of Madame Perkins, Baltimore, Md.; of Dr. Edward S. Kimball, Washington, D. C.; of Benjamin F. Wood, Boston; of Mary Kimball, Washington, D. C.; and of Herman Kotschmar, Portland, Me. Contralto Soloist in Choirs in Lewiston, Portland, Baltimore, Washington, Joliet, Ill., and Olivet, Mich. Head of Vocal Department and Public School Music Methods, Conservatory of Music, Olivet College, 1897-1909. Ripon College, 1909.
- LOUIS ARTHUR BROOKES, Mus. D.Fond du Lac
Licentiate Victoria College of Music, Fellow of Guild Church Musicians, London., Bach. of Music, Wisconsin College of Music; Doctor of Music, Kansas University; Organist and Choir Master, St. Paul's Cathedral, Fond du Lac, Wis. Instructor in Instrumental Music, Ripon College, 1909.

Committees of the Faculty.

CHAPEL SERVICE AND RELIGIOUS LIFE—Professors Mutch, Luehring, and Taintor.

DORMITORIES—Professors Barber and Harwood.

PUBLICATION—Professors Taintor and Shurtleff.

SOCIAL LIFE AND STUDENT SOCIETIES—Professors Harwood and Gilman, and Miss Zobel.

ALUMNI AND COMMENCEMENT—Professor Taintor, Mr. Mergendahl, and Miss Davis.

AID, RECOMMENDATIONS AND SCHOLARSHIPS—Professors Gilman, Mutch, and Harwood.

FORENSICS—Professors Marston and Shurtleff.

ATHLETICS—Professors Luehring, Gilman, and Talbert.

LIBRARY—Professors Barber and Marston, and Miss Hays.

Class Officers.

SENIOR CLASS—Professor Taintor.

JUNIOR CLASS—Professor Barber.

SOPHOMORE CLASS—Professor Mutch.

FRESHMAN CLASS—Professor Gilman.

OFFICERS OF ADMINISTRATION

The President of the College

FRANK MORTON ERICKSON	Dean
MARY CORINTHIA HARWOOD	Dean of Women
EMMA GERTRUDE SIMMONS	Head of Bartlett Cottage
FLORENCE CATHERINE HAYS	Librarian
TITUS EUGENE MERGENDAHL	Secretary of the Faculty
NELLIE WILLIAMS FORD	Cashier and Secretary
EVA FLOY DAVIS	Assistant Registrar
PEARL DAVISON	Assistant Cashier
ALICE MABEL BEARDSLEY	Assistant Librarian

Address correspondence to the Dean.

RIPON COLLEGE.

The institution out of which the present Ripon College grew, was incorporated January 29, 1851. Brockway College, as the first foundation was called in honor of one of its benefactors, was a development from the "Lyceum of Ripon," which was founded November 23, 1850. The original incorporators of Brockway College were David P. Mapes, Ezra L. Northrup, Alvin E. Bovay, Warren Chase, John S. Horner, Jehdeiah Bowen, Almon Osborn, Asa Kinney, Edwin Lockwood, Alexander B. Beardsley, William S. Brockway, Edward L. Runals, and William Starr. Something may be judged of the energy and sacrifice which entered into this early foundation by quoting its first president, the town builder, David P. Mapes.

"One of our first and best efforts was to commence a college. When Ripon had not a dozen dwellings, we put up and enclosed the first college building. Our object was to draw around us a class of inhabitants who would have the pride to educate their children, that they might be good for every good work. It required much labor to dispose of the stock of the college, but determined minds had said it should be done, and it was done."

From the time of its opening until 1855 the school was under the management of Rev. J. W. Walcott. No college classes were formed, and no college work was attempted until the autumn of 1863. On February 21, 1857, Mr. Walcott deeded the college property to the Board of Trustees, they securing him for his claim of six thousand nine hundred and seventy-seven dollars by a mortgage on the entire realty. The deed recognized the right of the Winnebago Convention to nominate candidates to fill vacancies in the board. The campus conveyed in this exchange embraced about nine acres, which has since been considerably increased. The dormitory building contemplated in 1855, was not ready for occupancy until the latter part of the autumn of 1858. The years from 1858 to 1862 witnessed serious struggles in the life of the young College. For a time during this period the buildings and grounds of the College were used for the purposes of the war, and many of its faculty and students saw actual service in the Union armies.

On April 23, 1863, the Rev. William E. Merriman, a grad-

uate of Williams College and of Union Theological Seminary, a popular preacher and an accomplished scholar, then pastor of the Presbyterian Church at Green Bay, was elected to the presidency of the College. The appointment of Mr. Merriman was an epoch in the history of the institution. The obstacles which confronted him were extraordinary, but he exhibited at once a power to overcome them, no less extraordinary. His Christian consecration and his enthusiasm were complete, not permitting him to miss any opportunity to do effective work for the College or for intellectual and spiritual uplift among students and people. Although the institution had at this time no endowment, only one professor besides the President, and hardly half a dozen students of college grade, yet it took its place of moral and intellectual leadership. Under the direction of the new President the College grew rapidly and substantially, the number of students more than doubled, new buildings were added, and the College admitted to membership in the Society for the Promotion of Collegiate and Theological Education in the West. This last accomplishment was of far reaching consequence, freeing the institution from obligations to the Winnebago Convention and placing it on a much firmer financial basis. In addition to this a large sum was added to the endowment; but above all the College, through this action, became recognized in the fraternity of colleges. In 1874 Dr. Merriman was given a leave of absence on account of ill health, and his active work as head of the College practically ended with this year. In this administration, remarkable in every sense, much was accomplished for the College in a material way; but more important than this, was the fact that under the guidance of this strong and simple man, the spirit of the institution was established.

The history of the College since the resignation of President Merriman in 1876 covers the administration of three presidents now living: Edward Huntington Merrell, D. D., LL. D., 1876-1891; Rufus Cushman Flagg, D. D., 1892-1900; Richard Cecil Hughes, A. M., D. D., 1901-1909. In the administrations of these three presidents much was accomplished for the College. The endowment was substantially increased, Bartlett Cottage and Ingram Hall were built, the buildings were remodeled throughout, the College was admitted to the benefits of the Carnegie Foundation for the Advancement of Teaching, and the Library secured the Carnegie endowment.

From the beginning, the College has been under the control of a Board of Trustees, who have uniformly conducted its affairs wisely, economically and with foresight. From 1855

to 1864 the Board was served by four different secretaries, Mr. J. W. Walcott, Mr. Hiram Freeman, Mr. C. C. Bayley and Mr. J. C. Catlin. In 1864 Storrs Hall, M. D., was made Secretary and served faithfully and efficiently until 1899. At that date Mr. Samuel M. Pedrick was elected to the office, which he still holds.

The Board has been equally fortunate in its Treasurers. Mr. Jehdeiah Bowen was twice Treasurer, between the years 1851 and 1861, and again from 1865 to 1882. The Treasurer from 1861 to 1865 was Mr. Charles F. Hammond. Mr. A. P. Harwood was elected in 1882 and served until 1883. Mr. J. A. Chamberlain served from 1883-84. Mr. Harwood was again elected in 1884 and served until 1886. In that year Mr. Joseph Scribner was made Treasurer and held the office until 1899, when Mr. S. M. Pedrick was elected. Mr. Pedrick was followed in 1905 by Mr. George L. Field, President of the First National Bank of Ripon. From 1876 to 1886 Mr. George C. Duffie as Assistant Treasurer had the care of the books and the responsibilities of Treasurer fell largely upon him. From 1905 to 1907 Mr. Frederick Spratt as Assistant Treasurer gave constant attention to the accounts and to the financial affairs of the College. The present Treasurer, elected in 1907, is Mr. Albert G. Farr, Vice President of the Harris Trust and Savings Bank, Chicago.

REQUIREMENTS FOR ADMISSION.

GENERAL REQUIREMENTS.

A candidate for admission who offers credentials from a recognized school showing that he has completed the requirements for entrance as given below, will be admitted provisionally to the freshman class. Those who do not offer credentials will be examined upon the work required for entrance. Whether a student enters by certificate or by examination, he is not given full standing until he has shown by doing satisfactory work that he is able to pursue a college course with profit.

All candidates for admission to the College must present satisfactory evidence of good moral character. Those coming from other colleges must present letters of honorable dismissal.

Entrance requirements are expressed in terms of units. A unit may be defined as an amount of work equivalent to a year's course of study of standard high school grade. It is understood that the standard high school course contains five recitation periods a week. Fifteen such units are required for admission to the freshman class. Of these fifteen units eight are prescribed, seven are within certain limits elective.

The following eight units are required of all:

English, 2 units; Mathematics, 2 units; Latin, German or French, 2 units; History, 1 unit; Science, 1 unit.

In addition to these requirements nine units must be offered from the following elective subjects:—

English, 1 or 2 units; Mathematics, $\frac{1}{2}$, 1, $1\frac{1}{2}$, or 2 units; Foreign Languages, 1, 2, 3, or 4 units; History, 1, 2 or 3 units; Civics, $\frac{1}{2}$ or 1 unit; Economics and Commercial Geography combined, 1 unit; separately, $\frac{1}{2}$ unit each; Science, 1, 2 or 3 units; Manual Training, 1 unit.

Not more than four of the required fifteen units will be accepted in any one subject. No foreign language course of less than two units will be accepted from students presenting only one foreign language.

Admission Without Foreign Language.—Students who offer fifteen units for entrance may be admitted without foreign language, but the language requirements must be met before graduation. This will ordinarily require extra work to the extent of four hours a week for one year, which will not

be credited as part of the number of unit hours required for graduation.

DETAILS OF SUBJECTS.

English. 2, 3, or 4 units. All candidates for admission to the College must present two units in English, one of which should consist of composition, and one of the reading and study of English classics. The two units required in English correspond in amount and character to the work of the first two years of the standard high school course. It is recommended that at least three units be presented in English, the third unit to consist of additional work in composition, and either (1) of the reading and study of representative selections from English and American Literature or (2) detailed study of a few typical examples of the novel, the drama, the lyric, and the essay.

Preparation in English should have two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation. To secure the first end, training in grammar and in the simpler principles of rhetoric, and the writing of frequent compositions are essential. The candidate must be able to spell, capitalize, and punctuate with accuracy. He must show a practical knowledge of the essentials of English grammar, of the construction of the sentence, and of the simpler principles of paragraph division and structure. To secure the second end, the candidate is required to read the works prescribed by the Commission of New England Colleges and Secondary Schools. The student should read the books with a view to understanding and enjoying them, and should secure a reasonable degree of familiarity with their substance.

Mathematics. The two required units in Mathematics are Elementary Algebra, one unit; Geometry, plane and solid, one unit. Additional credit to the amount of one-half unit will be given for advanced algebra.

The unit of Elementary Algebra required of all students should include the following subjects: Fundamental operations, equations of the first degree with one unknown number, simultaneous equations of the first degree, factors, highest common factor, lowest common multiple, quadratic equations, simultaneous equations above the first degree, elementary theory of indices, and radicals.

In Geometry the requirements should indicate a combined course of one year in plane and solid geometry and should consist of a sufficient number of propositions in solid Geometry.

If an additional half year of algebra is presented by the candidate for admission, the work should cover the following subjects: Simultaneous quadratic equations; ratio, proportion and variation, including graphical representation of simple relations between two variables; binomial theorem for positive integral exponents; logarithms, including use of tables in simple numerical work.

Language.

Greek. 2 units. Xenophon's *Anabasis*, four books; Homer's *Iliad*, three books, or an equivalent amount of the *Odyssey*; Greek composition.

Latin. 2 units. Caesar, four books or an equivalent amount of Nepos, Caesar (at least two books) and selections; composition. For further information in regard to Elementary Latin see under department of Latin.

Latin. 4 units. Elementary Latin with the addition of Cicero, six orations (selections from the letters may be substituted for two orations); Virgil, six books; composition; preferably in connection with Caesar and Cicero.

German. 2, 3, or 4 units. German may be offered for entrance to the amount of two, three, or four units, requiring respectively two, three, or four years of high school study. A candidate who presents elementary German (2 units) should be able to pronounce and to translate at sight, into idiomatic English, simple German prose, to put easy English sentences into German, and to carry on a simple conversation in German based upon the texts set for translation. If 3 or 4 units of German are offered a proportionate amount must be presented.

French. 2, 3, or 4 units. French may be offered for entrance to the amount of two, three or four units, requiring respectively two, three, or four years of high school study. A candidate who presents elementary French (2 units) should have a thorough knowledge of the grammatical forms of the language and possess a sufficient vocabulary to read simple French with ease. If 3 or 4 units of French are offered a proportionate amount must be presented.

History. 1, 2, 3, or 4 units. History may be offered in the following manner:

Ancient History to the year 800 A. D., 1 unit.

Medieval History, 1 unit.

English History, 1 unit.

United States History, 1 unit.

Any four of these units may be presented. In Civics, Commercial Law, Economics, and Commercial Geography, a half

unit may be offered for each subject, provided it represents a substantial course.

Science.

Physics. 1 unit. A year's course, including continuous and systematic laboratory practice. Any standard text-book may be used.

Chemistry. 1 unit. A year's course of descriptive chemistry, including both class-room and laboratory work. The student should keep a careful record of the experiments performed.

Botany. 1 unit. The course should cover a study of the life histories of types from the main groups of plants, and should include also a series of simple experiments.

One unit will be accepted in Physical Geography and in Zoology, provided it represents thorough systematic work of high school grade, also half a unit in Physiology.

ADMISSION BY CERTIFICATE.

On the principal's recommendation and certificate showing that the student has successfully completed the courses required for entrance, graduates of any Wisconsin high school, on the accredited list, will be admitted to the freshman class without examination. Information concerning the accredited schools will be furnished on application.

Graduates from schools in other states will be admitted on the same condition as graduates from Wisconsin schools, provided the certificate of the school admits to the recognized colleges of that state.

Certificates should be made out on blanks which will be furnished by the Registrar on application, and which should be returned to him before the opening of the college year.

Certificates issued by the state normal schools or recognized academies of the state will be accepted for the entrance requirements in the subjects covered by such certificates.

The list of accredited schools, from which students will be admitted to the College on certificate, is the same as that of the University of Wisconsin, and the regulations concerning accredited schools are the same.

NORMAL SCHOOL GRADUATES.

Graduates from the state normal schools who were graduated previously from a four-year high school course admitting to the college, will be given the degree of Bachelor of Arts on the completion of the major subjects as described on page 19 and those required subjects for which no equivalent has

been taken at the normal school. The time required to complete this course will depend somewhat on the subjects taken previously. By taking some extra work, it may, in most cases be completed in two years of residence.

PREPARATORY CLASSES.

The College no longer offers a full academy course for students of high school age. For somewhat more mature students who have completed part of the entrance requirements, the College provides special classes in Latin, German, English, Mathematics, Physics, and History. The courses afford direct and specific preparation for college work, being as rapid as is consistent with thoroughness. These classes are taught by capable instructors who work under the direction of the college professors, and the students have the use of such parts of the college library and laboratories as they need.

RIPON COLLEGE AND THE STATE UNIVERSITY.

Ripon College and the University of Wisconsin have practically the same entrance requirements and the same list of accredited schools. Students who migrate from either institution to the other will be given the rank of sophomores or juniors, if they change at the end of the first or second year of their work. It is not deemed advisable by either institution for students to migrate at the end of the junior year, but where such cases occur they will be dealt with on their individual merits.

The following statements from the catalogue of the University will indicate the arrangement between the University and the Wisconsin Colleges: "By arrangement with Beloit College, Lawrence College, Ripon College, Carroll College, and Marquette University, students of these institutions who have satisfactorily completed the work of the sophomore year will be admitted to junior rank in the College of Letters and Science. In case of migration at an earlier period than the end of the sophomore year, proportional credit will be given. Students who complete two years of work at Beloit, Lawrence and Ripon will be admitted to the College of Engineering of the University of Wisconsin on the same conditions as students who transfer to that college from the College of Letters and Science of the University of Wisconsin."

THE COLLEGE REQUIREMENTS FOR GRADUATION.

The requirement for graduation is one hundred and twenty (120) semester hours of credit in college courses and a satisfactory thesis on an approved topic connected with the major subject, or one hundred and twenty-four (124) semester hours of credit without thesis. The unit of measure, a semester hour, is one hour recitation or lecture, or one two-hour laboratory period per week for one semester. A course which meets four hours per week for one semester gives four (4) hours credit. Regular work is fifteen hours per week.

In the selection and arrangement of studies, the student has considerable freedom, but his choice is in part limited by the following general requirements. Every student must complete (a) certain fundamental subjects, and (b) a major subject.

(a) The subjects required of all students are the following: English, course 1; Foreign Language, two courses of one year each; a year course in three of the four following subjects: Mathematics, Science, History, and Philosophy or Education. Students who have had less than four years of foreign languages for entrance will be required to complete an additional year course in the College.

(b) Not later than the beginning of the second semester of the junior year the candidate for a degree is required to select a department in which to do special work. The professor in charge of this department will act as the student's adviser in the selection of courses in this department and in others to the amount of thirty-six (36) hours. This constitutes the student's major subject. The subject thus chosen, together with the subjects required of all students, insures the logical character of the group and requires on the part of the student sustained effort and definite result in one main direction.

About thirty-six (36) of the one hundred and twenty (120) are left to the free choice of the student, who is expected to consult his Faculty adviser in regard to the subjects selected.

The degree of Bachelor of Arts is conferred upon those who complete the above requirements.

SELECTION OF STUDIES.

In the selection of his studies the student will be guided by the following outline:

Freshman Year.

The regular work of the freshman year is four subjects, each continued through the year. English is required of all, and at least one subject should be chosen from each of the following groups:

I.
Latin
Greek
French
German

II.
Mathematics
Chemistry
Biology
History

It is recommended that the language which was offered for entrance be elected in the freshman year.

Sophomore Year.

In the sophomore year any of the subjects open to freshmen may be elected and any of the required subjects not already completed should be included in the selection. The other electives open to sophomores are the following subjects:

Latin 3-4
Greek 3-4
French 3-4
German 3-4
English Composition 2-3-4
English Literature
Philosophy 1-2

History 1-2
Economics 1-2
Mathematics 3-8
Chemistry 3-4
Biology 1-3-5
Physics 1-2

Junior and Senior Years.

By the time the student has reached the junior year he is ready to select one subject, or two closely related subjects, in which to do advanced cumulative work. The subject thus chosen will constitute the student's major subject and may be made from the following departments:

Philosophy
Education
Greek
Latin
French
German
English

History
Economics
Mathematics
Biology
Chemistry
Physics

This major subject will occupy from one-fourth to one-half the student's time in the junior and senior years.

EXHIBIT OF COURSES FOR 1910-1911.

First Semester.

I.	II.	III.
Greek A (4)	Psychology (3)	Mathematics 1 (3)
Greek 1 (4)	Philosophy 1 (4)	Mathematics 3 (3)
Greek 3 (3)	Education 5 (4)	Mathematics 8 (5)
Greek 9 (2)	Education 9 (3)	Mathematics 22 (4)
Greek 7 (3)	Religious	Mathematics 17 (4)
Latin A (5)	Education 15 (1)	Mathematics 19 (3)
Latin B (5)	History 1 (4)	Mathematics 21 (2)
Latin 1 (4)	History 13 (2)	Astronomy 1 (4)
Latin 3 (3)	History 6 (4)	Biology 1 (4)
Latin 5 (3)	History 7 (4)	Biology 4 (4)
Latin 12 (3)	History 16 (4)	Biology 8 (4)
French 1 (4)	Economics 1 (4)	Biology 6 (5)
French 3 (3)	Economics 6 (2)	Biology 7 (5)
French 5 (3)	Archaeology 4 (2)	Biology 11 (1)
French 7 (3)	Sociology 1 (3)	Chemistry 1 (4)
German A (4)	Music B (1)	Chemistry 3 (4)
German 1 (4)	Music C (1)	Chemistry 7 (3)
German 3 (3)	Music D (3)	Chemistry 5 (5)
German 5 (3)	Music E (4)	Chemistry 10 (4)
German 7 (2)	Music F (4)	Chemistry 9 (1)
English 1a (2)		Chemistry 8
English 1b (2)		Chemistry 11 (1)
English 3a (3)		Geology 1 (4)
English 6 (3)		Physics 1 (5)
English 9a (2)		Physics 3 (4)
English Comp. 2 (3)		Physics 5 (3)
English Comp. 4 (3)		Physics 6 (3)
English Comp. 5 (3)		Physics 8 (1)
English 18 (3)		
English 12a (1)		

Second Semester.

I.	II.	III.
Greek A (4)	Philosophy 3 (4)	Mathematics 2 (3)
Greek 2 (4)	Education 6 (4)	Mathematics 3 (3)
Greek 6 (3)	Bible 11 (3)	Mathematics 4 (4)
Greek 9 (2)	Religious	Mathematics 9 (5)
Latin A (5)	Education 15 (1)	Mathematics 15 (4)
Latin B (5)	History 2 (4)	Mathematics 20 (2)
Latin 2 (4)	History 13 (2)	Mathematics 18 (3)
Latin 4 (3)	History 8 (4)	Mathematics 19 (3)
Latin 6 (3)	History 9 (4)	Mathematics 21 (2)
Latin 12 (3)	History 17 (4)	Astronomy 2 (4)
French 2 (4)	Economics 3 (4)	Biology 2 (3)
French 4 (3)	Economics 4 (4)	Biology 3 (4)
French 6 (3)	Economics 6 (2)	Biology 5 (5)
French 7 (3)	Archaeology 1 (2)	Biology 10 (4)
German A (4)	Greek 8 (3)	Biology 11 (1)
German 2 (4)	Sociology 3 (3)	Chemistry 2 (4)

The subjects exhibited above are presented here for the convenience of the student, arranged in groups.

Freshman Year.

Sophomore Year.

*It is recommended that two of these three courses be completed by the end of the Sophomore year. The third year may be taken as a Sophomore elective.

Philosophy	Mathematics
Education	Biology
A Language	Chemistry
History	Physics
Economics	

Group II.

This group is recommended for those whose major subject will probably be in the sciences:

Freshman Year.

English	
Elect two:	Elect one:
Biology	German
Chemistry	French
Algebra—Trigonometry	Latin

Sophomore Year.

Elect two:	Chemistry
Biology	Physics
Elect two, one of which must be a foreign language:	
German	Mathematics
French	English
Latin	History
	Economics

Junior and Senior Years.

Elect two, one of which must be indicated as a major:

Biology	Physics
Chemistry	
Electives to make 15 hours each semester:	
Psychology	Sociology
Economics	History
Philosophy	Bible
English	Advanced German
Mathematics	Advanced French
Pedagogy	

Groups of courses for students who are preparing for special work, follow:

Philosophy Group.

Freshman Year.

First Semester	Second Semester
English	English
Greek	Greek
Latin	Latin
Elective:	Elective:
Biology	Hebrew Prophets
History	Physiology
Greek Art	

Sophomore Year.

Method of Nature	German
German	English Composition
English Composition	Sociology
Elective:	
Optionals not taken first year or	
Bible as Literature	Ancient Philosophy
Economics	Economics
Mathematics	Mathematics
Physics	Physics
Psychology	Teaching of Jesus

Junior Year.

Philosophy of Culture	Pedagogy
Religious Education	Logic and Metaphysics
Social Institutions	Ancient Philosophy (if not taken
Psychology (if not taken before.)	before)
Elective:	Hebrew Prophets (if not taken be-
Optionals not previously taken or	fore)
French	French
German	German
Greek	Greek
Latin	Latin

Senior Year.

Philosophy of Education	Types of Modern Thought
Grading and Curriculum	Teaching of Jesus
Bible as Literature (if not taken	American Development
before)	
Elective:	
Optionals not already taken	

This course presupposes two years each of preparation in Latin and German. Minor changes to accommodate special cases may be made on consultation.

Group for Teachers.

The first two years of this group follow the course as outlined under Group I.

Junior Year.

History of Education	Pedagogy
Psychology	Logic and Metaphysics
Electives, including subject which student expects to teach.	

Senior Year.

Philosophy of Education	High School Teaching
Grading and Curriculum	Types of Modern Thought

Electives, including the subject in which the student expects to teach, the Teacher Course in that department being required.

Chemistry-Biology Group.

Preparatory to the Study of Medicine.

Freshman Year.

First Semester

English
French or German
General Chemistry
Mathematics

Second Semester

English
French or German
General Chemistry
Mathematics

Sophomore Year.

French or German
General Biology
General Physics
Elective:
History
English

French or German
Biology of Vertebrates
Physics
Elective:
History
English

Junior Year.

Greek or Latin
Chemistry
Histology
Elective:
History
Psychology
English

Greek or Latin
Chemistry
Embryology
Elective:
English
Economics

Senior Year.

Chemistry
Thesis
Physiology
German or French
Elective:
Elements of Sociology
Greek Literature in English
Philosophy
English
Greek or Latin

Chemistry
Thesis
Bacteriology
German or French
Elective:
Geology or Mineralogy
Philosophy
Economics
Greek or Latin

History-Economics Group.

Preparatory to the Study of Law.

Freshman Year.

First Semester

Ancient History
English
Foreign Language
Mathematics

Second Semester

Ancient History
English
Foreign Language
Mathematics

Sophomore Year.

Mediaeval History
English
Foreign Language
Science

Modern History
English
Foreign Language
Science

Junior Year.

United States History
Principles of Economics
Philosophy
Language

United States Diplomatic History
Economic Problems
Philosophy
Language

Senior Year.

English History
Public Finance
Thesis
Elective

English Constitutional History
Money and Banking
Thesis
Elective

Mathematics—Physics Group.

Freshman Year.

First Semester

Chemistry
French or German
English
Algebra

Second Semester

Chemistry
French or German
English
Trigonometry

Sophomore Year.

Quantitative Analysis or English Literature	Elementary Astronomy
Analytic Geometry	Differential Calculus
General Physics	General Physics
French or German	French or German

Junior Year.

Integral Calculus
Light
European History or Economics
Elective

Differential Equations
Heat
European History or Economics
Elective

The following subjects are recommended as electives
Theory of Equations, or
Biology, or

Advanced German, or
Philosophy 1

Senior Year.

Determinants
Electricity and Magnetism
Physical Chemistry
Elective
Seminary and Thesis

Philosophy
Physics
Psychology
Elective
Seminary and Thesis

Pre-Engineering Group.

Freshman Year.

First Semester

English
German or French
Algebra
Chemistry

Second Semester

English
German or French
Trigonometry
Chemistry

Sophomore Year.

German or French
Analytic Geometry
Mechanical Drawing
General Physics

German or French
Differential Calculus
Mechanical Drawing
General Physics

Junior Year.

Integral Calculus
Light
General Astronomy
Descriptive Geometry

Differential Equations
Heat
Plane Surveying
Descriptive Geometry

Senior Year.

English Composition
Theoretical Mechanics
History or Economics
Elective
Seminary and Thesis

English Composition
Theoretical Mechanics
History or Economics
Elective
Seminary and Thesis

The Pre-Engineering Group is intended to meet the needs of those students who wish to secure a thorough-going foundation for advanced study in engineering. It is hoped, therefore, that after graduation most of those who pursue this group of studies will desire to carry on their work at the University of Wisconsin or elsewhere. The agreement below has consequently been entered into by the University and Ripon College.

1. Graduates of Ripon College, who have followed the course outlined as the Pre-Engineering Group of studies, will be graduated from the various engineering courses leading to the degree of Bachelor of Science in two additional years; provided that students in civil engineering can make arrangements to complete the sophomore surveying before entering the University. (This may be done in the University Summer School.)

2. Graduates, who have pursued the studies of this group will be graduated from the advanced engineering course leading to the professional degree in two years and two summer sessions at the University, with the provision concerning students in civil engineering above noted.

SCHEDULE OF RECITATIONS.

Second Semester, 1910-11.

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Eight O'Clock	Education 5 Composition 2 English 6 Economics 6 French 5 Latin 3 Mathematics 8 Mathematics 22 Sociology 1	T T T M M M M M	W Th Th W W W W W	Th F F F F F F F	F F F F F F F F		
					Laboratory Hours 8 to 10 A. M. Biology 1 Chemistry 1a Chemistry 1b Physics 1	M M M M	F F F F
Nine O'Clock	Biology 7 Chemistry 1 Composition 4 French 3 Greek 3 History 7 Latin 12 Mathematics 1 Mathematics 1 Philosophy 1 Physics 1	M M M M M M M M	T W W Th W W W W	Th F F F F F F F	F F F F F F F F		S
Ten O'Clock	Biology 6 Chemistry 1 Chemistry 7 Composition 5 French 1 German A Greek A	M M M M M M M	W W W W W W W	Th F F F F F F	F F F F F F F		
					Latin A Latin 5 Mathematics 3 Mineralogy Psychology Physics 5	M M M M M M	S S S S S S
Eleven O'Clock	Bible 10 Biology 4 Chemistry 1 Chemistry 3 Chemistry 10 English 3a English 12a German 1 German 5 Greek 7	T T T M M M M M M	Th Th Th W W W W W W	F F F Th Th Th Th Th Th	F F F F F F F F F		
					History 6 Latin 1 Mathematics 3 Physics 3 Physics 5	M M M M M	F F F F F

"Page 28; for Second Semester read,
First Semester; Page 29; for First
Semester read Second Semester."

RIPON COLLEGE

One O'Clock	English 1a	M	Th	Laboratory hours for advanced courses in Biology, Chemistry, Physics, M. T., Th., F., 1 to 3; Sat- urday, 8 to 12.				
	English 1a	T	F					
	English 1b	M	Th					
	English 1b	T	F					
	German 7	T	Th					
	Greek 9	T	Th					
	History 1	M	T	Th	F			
Two O'Clock	Archaeology 4	M	Th					
	Economics 1	M	T	Th	F			
	French 7	M	T	Th				
	German 1	M	T	Th	F			
	Greek 1	M	T	Th	F			
	History 16	M	T	Th	F			
	Astronomy 2	M	T	Th	F			
Three O'Clock	Biology 1	T	F	German 3	M	T	Th	
	Biology 8	M	Th	History 13	M		Th	
	Chemistry 5	T	Th	F	Mathematics 17	M	T	Th
	English 18	M	T	F				
	English 9	M	Th					
	Education 9	M	T	Th				
	French 1	M	T	Th	F			

First Semester, 1910-11.

Eight O'Clock	Education 6		T	W	Th	F				
	Composition 3		T		Th	F				
	English 4		T		Th	F				
	Economics 6		T			F				
	French 6	M		W		F				
	Latin 4	M		W		F				
	Mathematics 9	M	T	W	Th	F				
	Sociology 3		T	W	Th					
Laboratory hours, 8 to 10 A. M.										
	Biology 3						M		F	
	Biology 2							W	S	
	Biology 9						T		Th	
	Chemistry 2a						M		F	
	Chemistry 2b							T	Th	
	Physics 2						M	W	F	
Nine O'Clock	Composition 4	M		W		F				
	Economics 4	M	T	W	Th					
	French 4		T		Th	F				
	Greek 4		T	W		F				
	History 9	M	T		Th	F				
	Latin 12	M		W		F				
	Mathematics 2	M		W		F				
	Mathematics 2		T		Th			S		
	Philosophy 3		T	W	Th	F				
	Physics 2		T		Th					
Ten O'Clock	Biology 10	M	T	W		F				
	Chemistry 2				Th					
	Chemistry 6	M		W		F				
	Composition 9	M		W		F				
	Geology 2		T		Th	F				
	German A	M	T	W		F				
	Greek A	M	T	W		F				
	French 2	M	T	W		F				
					Latin A	M	T	W	F	S
					Latin 6	M	T		Th	
					Mathematics 3	M		W		F
					Mathematics 18	M		W		F
					Physics 7					F

RIPON COLLEGE

Eleven O'Clock	Archaeology 1		T	Th	History 8	M	T	W	Th
	Biology 5	M		W	Latin 2	M	T	W	Th
	Chemistry 2				Mathematics 3	M		W	F
	Chemistry 4		T	Th	Physics 4		T		Th F
	English 3b		T	Th F	Physics 7	M		W	
	English 12b	M							
	German 2	M	T	W	Th				
	German 6	M		W	F				
	Greek 8	M		W	F				
One O'Clock	English 1a	M		Th					
	English 1a		T		F				
	English 1b	M		Th					
	English 1b		T		F				
	German 8		T	Th					
	Greek 9		T	Th					
Two O'Clock	History 2	M	T	Th	F	Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F. 1 to 3; Saturday 8 to 12.			
	Economics 3	M	T	Th	F				
	French 7	M	T	Th					
	German 2	M	T	Th	F				
	Greek 2	M	T	Th	F				
	History 17	M	T	Th	F				
Three O'Clock	Astronomy 1	M	T		F				
	Bible 11	M	T	Th		French 2	M	T	Th F
	Biology 3		T		F	German 4	M	T	Th
	Biology 2	M				History 13	M		Th
	English 2	M		Th		Mathematics 15	M	T	Th F

DESCRIPTION OF COURSES.

PSYCHOLOGY.

Professor _____

The course in general Psychology given each year includes a study of the structure and functions of the nervous system, the various forms of mental activity, and the relations of Psychology to Education, Ethics, and Philosophy.

First semester. Three hours. T., Th., F., 10:15.

PHILOSOPHY.

Professor Mutch.

The courses in Philosophy and Education are arranged in a two-year cycle. Students whose major subject is in either are recommended to take all the courses in that subject in the order given.

A year course in Philosophy 1, 2, 3, 4, and Greek 8 will meet the requirement in Philosophy for graduation.

1. **Method of Nature.** An introductory course in Philosophy. It co-ordinates and rounds up the college courses, giving new meaning to them all, revealing the unity of the world and its developmental aspects, and shaping the student's thinking for life. The course consists of wide reading and class discussions following a syllabus of topics.

First semester. Four hours. T., W., Th., F., 9:00.

2. **Philosophy of Culture.** A continuation of 1. The laws and forces operative in human life and society furnish the subject matter.

First semester. Four hours. Omitted in 1910-11.

3. **Types of Modern Thought.** The various schools of modern thought such as Realism, Materialism, Idealism, Monism, and Pragmatism are studied in the writings of their leading exponents and in Calkins' "Persistent Problems of Philosophy." Prerequisites 1 or 2.

Second semester. Four hours. T., W., Th., F., 9:00.

4. **Logic and Metaphysics.** A brief text-book in Logic to be followed by Paulsen's "Introduction to Philosophy" and other reading.

Second semester. Four hours. Omitted in 1910-11.

See also Greek 8. Greek Philosophy and its relation to Christianity.

EDUCATION.

Professor Mutch.

Course 6 or course 8 with its prerequisites, together with Psychology, will meet the requirement for a state teacher's certificate for college graduates. A temporary license is issued to those who have not had the necessary one year of successful experience in teaching.

5. Philosophy of Education. The foundations of the educative process in Physiology, Psychology, Biology and Sociology are studied, both as a preparation for teaching and as a guide to the ordering of one's own mental life. Horne's "Philosophy of Education" and "Psychologic Principles of Education" are used as text-books.

First semester. Four hours. T., W., Th., F., 8:00.

6. High School Teaching. A study of the pedagogy of secondary education, by means of text-books, assigned reading, class discussions and observation work. Prerequisite 5 or 7.

Second semester. Four hours. T., W., Th., F., 8:00.

7. History of Education. Monroe's Text-book in the History of Education with special topics and additional readings.

First semester. Four hours. Omitted in 1910-11.

8. Pedagogy. The ideals, principles and general method of teaching, with special method and observation work. Prerequisites 5 or 7.

Second semester. Four hours. Omitted in 1910-11.

9. Grading and Curriculum. The physiological and psychological bases for grading are studied, together with the materials best suited to produce educative results at different stages of mental development, both in general and in religious education. This course should be preceded or accompanied by one of the other courses in Education, preferably 5.

First semester. Three hours. M., T., Th., 3:15.

See also "Courses for Teachers" in Latin, German, Physics and English.

BIBLE AND RELIGIOUS EDUCATION.

Professor Mutch.

These courses are designed, first, to give the student the best possible light upon his own moral and religious nature,

and second, to fit the student for effective service and leadership in that work of religious education which is required in every community.

Course 9 under Education is quite as much a course in Religious Education as in general Education.

10. Problems of Religion. A study of the nature, origin and value of religious phenomena and experience, especially as affected by educational ideals and methods.

First semester. Three hours. Omitted 1910-11.

11. The Teaching of Jesus. A study of the content of the gospel message and of the manner of its presentation. Methods of teaching are studied after the model of the great Teacher.

Second semester. Three hours. M., T., Th., 3:15.

12. Hebrew History Prophets. A detailed study of the Books of Samuel and a general study of related literature.

Second semester. Three hours. Omitted 1910-11.

13. First Forms of Christianity. Omitted 1910-11.

14. History of the Bible. Omitted in 1910-11.

15. Hebrew Poetry and Philosophy. A course in Old Testament reading and interpretation for its value to the modern mind.

Through the year. One hour. Sunday 9:15.

In addition to the courses outlined above, other courses in the Bible are given by Professor Erickson and Professor Taintor. See Greek 9 and English Literature 9a and 9b.

GREEK.

Professor Erickson.

A. Course for Beginners. White's "First Greek Book," Goodwin's Grammar, Goodwin and White's Anabasis.

A year course. Four hours. M., T., W., F., 10:15.

1-2. Orators, Herodotus, Homer. Selections from Lysias, Andocides, Herodotus, and Homer's Odyssey. Systematic study of grammar. Full discussion of historical and archaeological matters.

Through the year. Four hours. M., T., Th., F., 2:15.

3-4. Plato, Euripides, Aristophanes, Lucian. Plato's Apology and selections from other writings; Euripides, Alcestis and Iphigenia in Tauris; Aristophanes, Acharnians; selections from Lucian.

Through the year. Three hours. T., W., F., 9:00.

5-6. Thucydides, Aeschylus, Demosthenes. Thucydides,

the Sicilian Expedition; Aeschylus, Agamemnon; Demosthenes, On the Crown.

Omitted 1910-11.

9. Greek Testament. A careful study, text and interpretation, of selected passages in the Greek New Testament. Prerequisite: Greek A.

Through the year. Two hours. T., Th., 1:15.

7. Greek Literature. A study of the masterpieces of Greek literature through English translations; study of the influence of classical literature upon the form and content of subsequent literature to the present time.

The method used is a combination of the historical and topical. In each period such topics as the following are discussed: Epic poetry, the drama, pastoral idyl and romance, animal fables, and wonder-stories. Lectures, assigned reading, reports, and a thesis.

First semester. Three hours. M., W., F., 11:15.

8. Greek Philosophy and Its Relation to Christianity. A survey of ancient philosophy and of the more popular religious ideas down to and including contact with Christianity.

Second semester. Three hours. M., W., F., 11:15.

LATIN.

Professor Bridgham.

Miss Davis.

A. Course for Beginners. Elements of Latin; Caesar.

Through the year. Five hours. M., T., W., F., S., 10:15.

B. Cicero-Virgil. Cicero's Orations; Virgil's Aeneid Books I-VI.

Through the year. Five hours.

1. Livy. Selections. **Cicero:** De Senectute. Prose work.

First semester. Four hours. M., T., W., Th., 11:15.

2. Horace. Odes and Epodes. Lectures on the development of Latin poetry.

Second semester. Four hours, M., T., W., Th., 11:15.

3. Sallust and Catiline. Selections from Ovid and Martial.

First semester. Three hours. M., W., F., 8:00.

4. Tacitus and Juvenal. The Captivi of Plautus.

Second Semester. Three hours. M., W., F., 8:00.

The following elective courses are open to those who have completed two years' work as outlined above.

5. Catullus. Lectures on the history of lyric poetry. Selections from Lucretius.

First Semester. Three hours. M., T., Th., 10:15.

6. **Roman Letters.** Selections from the Letters of Pliny and of Cicero.

Second semester. Three hours. M., T., Th., 10:15.

7. **Satire.** Selections from Juvenal, Horace and Persius.

First semester. Three hours. Omitted 1910-11.

8. **Comedy.** Selected plays of Plautus and Terence for rapid reading.

Second semester. Omitted 1910-11.

11. **Latin Literature.** The work includes: (1) The translation of all of the selections in Smith's Selections, from the beginning to Cicero; many selections from the chief authors from Cicero and Gellius: (2) the mastery of the Primer of Latin Literature which will be supplemented by a course of lectures on the History of Latin Literature; (3) the preparation of a paper upon some topic connected with the work. Required of those who major in Latin.

Text-books: Smith's "Latin Selections;" Wilkin's "Primer."

Through the year. Two hours. Omitted in 1910-11.

12. **Course for Teachers.** Caesar, Cicero, and Virgil. This course is designed for those students who are planning to teach Latin. The Civil War of Caesar, Selected Orations of Cicero not commonly read in the high school, and the last six books of Virgil will be read. Special reviews will be made of case and mood constructions, some writing of Latin will be done and discussions held on matters pertaining to the teacher's work. Required if Latin is a major subject.

Through the year. Three hours. M., W., F., 9:00.

CLASSICAL ARCHAEOLOGY AND ANTIQUITIES.

Professor Erickson.

Professor Bridgham.

The following courses are intended to supplement the work of the Classical Department. They are well illustrated by the use of stereopticon and photographs.

1. **Greek Antiquities.** Lectures on the geography and peoples of Greece. Topography of Athens. Private life and social conditions in Athens.

Second semester. Two hours. T., Th., 11:15.

2. **Greek Art.** The primary object of this course is to familiarize the student with the important remains of ancient art and the principles of classic architecture and sculpture.

First semester. Two hours. Omitted 1910-11.

3. **Topography and Monuments of Ancient Rome.** This course traces the growth of the ancient city from its foundations to the fourth century, treating in detail the following portions: Roman Forum, Capitoline, Palatine and Aventine Hills, Fora of the Empire, Buildings of the Campus Martius, Triumphal Arches, Thermae, Tombs, and other buildings and monuments of the city. One hour each week will be devoted to lectures and examinations. The second hour, 7 p. m., Wednesday, will be used to illustrate the lectures by means of lantern slides. The course is open to all students of the college. No knowledge of Latin is required. Notes will be taken and outside reading required. Required of students whose major is Latin.

First semester. Two hours. Omitted in 1910-11.

4. **Roman Private Life.** Lectures are given on the following subjects: the Roman name, the organization of the family, marriage and divorce, children—their nurture, amusements and education; slaves, freedmen, clients, and hospitals; houses—their construction, decoration and furnishing; dress, daily and social life, theater, circus, amphitheatre and public baths; writing, manuscripts, and libraries, travel, arts, and industries; religion and burial. The course is open to all students of the college, and no knowledge of Latin is required. Notes will be taken and outside reading required. Required of students whose major is Latin.

First semester. Two hours. M., Th., 2:15.

5. **Roman Archaeology.** A detailed study is made in this course of the ancient monuments in Rome and Pompeii and Roman Topography. Students are sent to the classical authors themselves first and then to the modern English writers for fuller descriptions. Many of the inscriptions in the *Corpus*, Vol. VI. are read. Maps are drawn. Several hundred photographs and slides are studied. Open only to juniors and seniors. Omitted in 1910-11.

Through the year. Three hours.

In courses 3 and 4 a laboratory fee of \$1.50 is charged.

FRENCH.

Professor Harwood.

Associate Professor Simmons.

First Year.

Associate Professor Simmons.

1 and 2. **Elementary French.** Grammar, reading, com-

position, dictation, and oral exercises. Thieme and Effinger's French Grammar. Much attention is paid to pronunciation and as far as possible French will be the language of the class room.

Through the year. Four hours.

Section 1: M., T., W., F., 10:15.

Section 2: M., T., Th., F., 3:15.

Second Year.

Associate Professor Simmons.

3. Sophomore French. Reading and composition; supplementary reading and reports. The class room work is conducted in French. The following texts suggest the nature of the reading rather than the actual works that may be read: Daudet's Short Stories; Mérimée's "Colomba;" Erckmann, Chatriaux's Conscrit de 1813; De Vigny's Cachet Rouge, etc.

First semester. Three hours. T., Th., F., 9:00.

4. Sophomore French. A continuation of Course 3.

Second semester. Three hours. T., Th., F., 9:00.

Third Year.

Professor Harwood.

5. Advanced Reading. The texts will be chosen largely from the seventeenth century classics and from the novels and dramas of the nineteenth century. A large amount of reading will be done; students will give frequent written and oral reports and summaries in French.

First semester. Three hours. M., W., F., 8:00.

6. Advanced Reading. A continuation of Course 5.

Second semester. Three hours. M., W., F., 8:00.

Fourth Year.

Associate Professor Simmons.

7. French Literature. General survey of the seventeenth, eighteenth, and nineteenth centuries, with particular attention to the writers of the seventeenth and eighteenth. Lectures, readings, and reports.

Through the year. Three hours. M., T., Th., 2:15.

8. French Literature. General survey of the fourteenth, fifteenth and sixteenth centuries. Lectures, readings, and reports. Alternates with French 7.

Through the year. Three hours. Omitted in 1910-11.

GERMAN.

Professor Harwood.
Miss Zobel.

First Year.

Miss Zobel.

A. Course for Beginners. This course is arranged for students who have not met the college entrance requirements in German. The work, if satisfactorily done, will admit the student to the Freshman German.

Thomas' "Practical German Grammar," Part. I. Reading, dictation, memorizing, reciting in German.

Through the year. Four hours. M., T., W., F., 10:15.

First Year.

Miss Zobel.

1 and 2. Freshman German. This course is intended to continue the work begun in the secondary schools. It is conducted in German, and the lessons are to be recited in part in German.

Study of the novel or the short story, three hours; prose composition, one hour.

Through the year. Four hours.

Section 1: M., T., W., Th., 11:15.

Section 2: M., T., Th., F., 2:15.

Second Year.

Professor Harwood.

3. Sophomore German. This course is conducted entirely in German. Study of the works of Riehl, Rosegger, Saar, Storm, and others, with written reviews of the works read.

First semester. Three hours. M., T., Th., 3:15.

4. Sophomore German. This course is conducted in the same manner as 3. Study of the dramas of Freytag, Fulda, Grillparzer, Sudermann, and Wildenbruch.

Second semester. Three hours. M., T., Th., 3:15.

Third Year.

Professor Harwood.

5. Lessing-Schiller. The principal plays of these two dramatists are studied. Written reviews of the works read.

First semester. Three hours. M., W., F., 11:15.

6. Goethe. This course is conducted on the same plan as the Lessing-Schiller course.

Second semester. Three hours. M., W., F., 11:15.

Fourth Year.

Professor Harwood.

7 and 8. Course for Teachers. This course is designed for students who are intending to teach, and is open to those who have completed 5 and 6.

Composition on assigned themes, one hour; review of the grammar, one hour; recitation on readings from German newspapers and periodicals in addition.

The members of this class are called upon to conduct recitations, and are also given opportunity to act as substitute teachers.

Through the year. Two hours. T., Th., 1:15.

ENGLISH.

Professor Taintor.

Professor Shurtleff.

The work in English includes the study of Literature, of Literary History and of Composition. The Literature courses, and also the first year work in the History of English Literature, are given by Professor Taintor. The other courses in Literary History and the courses in Composition are given by Professor Shurtleff.

The course known as English 1, including 1a and 1b, is a pre-requisite for all other courses in English, and should be taken in the first year.

A Course for Teachers, designed for those in the upper classes who are preparing to teach will also be given. The course will include a review of the college entrance requirements under Professor Taintor in the first semester, and a review of the principles of composition under Professor Shurtleff in the second semester. This is a full year course, one hour a week. No credit will be given for less than a year's work.

ENGLISH LITERATURE.

Professor Taintor.

1a. The History of English Literature. A general survey of English literature from the earliest period to the Victorian age.

Books required: "The Making of English Literature," Crawshaw; "English Poetry," Manly.

Through the year. Two hours.

Section 1: M., Th., 1:15.

Section 2: T., F., 1:15.

3. Shakespeare. The Historical Plays.

Omitted in 1910-11.

3a. Shakespeare. Studies in the Tragedies.

First semester. Three hours. T., Th., F., 11:15.

3b. Shakespeare. Studies in the Comedies.

Second semester. Three hours. T., Th., F., 11:15.

8. The Drama Before Shakespeare. The gradual development of the drama is traced, and the earlier plays are read.

Omitted in 1910-11.

5. The Romantic Movement. Studies in the poems of Wordsworth, Coleridge, Scott, Byron, Shelley, Keats.

Omitted in 1910-11.

6. The Age of Tennyson. Studies in the poems of Tennyson, Browning, Arnold, and others.

First semester. Three hours. T., Th., F., 8:00.

4. The Age of Milton. Special attention will be given to Paradise Lost and Paradise Regained. Assigned readings and reports on the life and work of Milton. A brief study will be made of Bunyan's "Pilgrim's Progress."

Second semester. Three hours. T., Th., F., 8:00.

10. The American Poets. Readings in the representative poets of America. Text-book: "The Chief American Poets," Page.

Omitted in 1910-11.

9a. The Bible as Literature. The Old Testament. Text-book: "The Modern Reader's Bible," Moulton.

First semester. Two hours. M., Th., 3:15.

7. English Prose. The course follows the development of prose from Bacon to Ruskin.

Omitted in 1910-11.

9b. The Bible as Literature. The New Testament.

Omitted in 1910-11.

2. Chaucer. This course is designed for those who desire a general acquaintance with Chaucer's poems, and an insight into the life of the fourteenth century. It consists chiefly of the reading of Chaucer, with frequent reports upon matters pertaining to his times. It requires no previous study of Middle English.

Second Semester. Two hours. M., Th., 3:15.

12a. Course for Teachers. This course is given in connection with the Course 12b under Professor Shurtleff and should be taken only by those who plan to take the whole year's work.

First semester. One hour. M., 11:15.

ENGLISH COMPOSITION AND LITERARY HISTORY.

Professor Shurtleff.

The work in English Composition and Literary History comprises three kinds of courses, courses in English Composition, courses in Literary History, and one course in Anglo-Saxon. The courses in English Composition aim to accomplish three main purposes: (1) to train students to use the English language with accuracy and force; (2) to give further training in Composition to those who in later business or professional life, will need especial skill in writing; (3) to give those who have some talent for writing an opportunity to develop their powers. The courses in Literary History have two main aims: (1) to broaden and increase the student's knowledge of literary history; (2) to develop in the student critical ability. Writing forms a part of the work of the courses in Literary History. The course in Anglo-Saxon is a study of the Anglo-Saxon language.

1b. Freshman English Composition. The course consists of a study of the principles of composition, aiming to present matter essential to all writing. In pursuance of this aim the first semester is devoted chiefly to correctness of detail in written discourse. During the second semester the work of the course will deal mainly with Exposition, the most useful form of prose discourse.

Text-books: "The Foundations of Rhetoric," Adams Sherman Hill; "Specimens of Prose Composition," Nutter, Hersey and Greenough; "The Principles of Composition," Pearson.

Through the year. Two hours.

Section 1: T., F., 1:15.

Section 2: M., Th., 1:15.

2. English Composition. This course is intended primarily for sophomores who have done good work in English 1b, and who wish for more practice in composition. It deals with the four forms of prose composition, Exposition, Argumentation, Description and Narration. The work is carried on by lectures, themes, and conferences.

Text-book: "English Composition," Barrett Wendell.

First semester. Three hours. T., Th., F., 8:00.

3. Exposition. The work emphasizes the structural elements of exposition. It is especially desirable that the writing in this course should deal with subjects which the student is investigating in other college work. Written exercises, lectures, and private conferences.

Text-book: "Specimens of Exposition," Hammond Lamont.

Second semester. Three hours. T., Th., F., 8:00.

4. Advanced Composition. This course is intended for those who have some talent for writing. Students will be urged to develop power in that form of composition which they most prefer. Considerable emphasis will be laid upon practice in writing the short story.

Themes, lectures, and conferences.

Through the year. Three hours. M., W., F., 9:00.

5. Debating. Practice in brief drawing, in the composition of debates, and in the writing of argumentative prose. Each member of the class will thoroughly prepare two debates during the semester.

First semester. Three hours. M., W., F., 10:00.

8. The English Essay. This course will consist of a study of the origin and development of the essay, and will include wide reading in the best English essays and an analytical study of the essay form.

First semester. Three hours. Omitted in 1910-11.

9. The English Novel. This course will deal with the origin and development of the English novel, and with a study of the technique of the novel. The work will be based on Bliss Perry's "A Study of Prose Fiction."

Second semester. Three hours. M., W., F., 10:15.

17. Literary History of Mediaeval England. The influence of continental literature upon England in this period, especially upon Chaucer, will be studied. Several Mediaeval Romances will be read, among which are Gawain and the Green Knight, the Lady of the Fountain, Tristram and Iseult, Parsival, and The Story of the Grail. These works will be read to be appreciated and enjoyed. A knowledge of English is sufficient for the course.

Second semester. Three hours. Omitted 1910-11.

18. Literary History of America. Literary History of America from the beginning to the present time.

Text-book: "History of Literature in America," Wendell and Greenough.

First semester. Three hours. M., T., F., 3:15.

13a. Anglo-Saxon. Course 13a requires no previous knowledge of Anglo-Saxon.

Text-book: "Anglo-Saxon Reader," Bright.

First semester. Three hours. Omitted in 1910-11.

12b. Course for Teachers. This course is recommended to students who plan to teach English. It consists of a rapid

and comprehensive review of the elements of composition. The work is carried on with a view to impress on the mind of teachers the fundamental principles of effective writing. This course is given in connection with course 12a under Professor Taintor.

Second semester. One hour. M., 11:15.

HISTORY.

Professor Marston.
Associate Professor Nickell.

Courses 1, 5, 6, 7 and 8 are required of those making History their major. Course 1 in United States History must precede all other courses in American History. The work will be carried on by means of text-books, lectures, reports and required readings. Oral and written exercises and separate and final examinations are held on both texts and lectures. The minimum requirement of reading, exclusive of the text, is twenty-five pages a week for every unit of credit.

AMERICAN HISTORY.

Professor Marston.

1. United States History. A general survey of the social, economic and political history of the United States. Lecture on the origin and growth of political parties. Not open to freshmen.

First semester. Four hours. M., T., Th., F., 1:15.

2. Westward Expansion. A study of westward migration, and the social, economic and political aspects of the formation of American commonwealth west of the Allegheny mountains. It embraces a study of the organization of a public land system; communication and transportation; evolution of the American frontier, and the part the West has played in our national development.

Second semester. Four hours. M., T., Th., F., 1:15.

4. Diplomatic History of the United States. This will be a study of the international relations of the United States from 1775 to the present day, including such topics as the following: Treaties relative to American commercial relations between various countries; foundations of a national foreign system in 1775; committee of foreign relations; embassies to Europe; French alliances; Spanish territorial diplomacy; the purchase of Louisiana; the northeast and northwest boun-

daries; the fisheries; the Isthmian canal; the Hague conference; lectures on American treaties.

Omitted 1910-11.

12. American Development. A sociological interpretation of the history of the United States. It will consist of a study of the political or governmental, economic, intellectual and religious interests in their associational process in order that the student may secure as complete an understanding as possible of American development and American problems.

Omitted 1910-11.

13. Seminar in American History. This course is designed to familiarize the student with the elements of historical method, investigation, criticism and the use of sources. For this part of the work Langlois and Seignobo's "Introduction to the Study of History," is used as a manual. The student will embody the results of his study of method in an assigned topic for investigation, part of which, at least, must be from source material. Open only to seniors.

Through the year. One hour attendance and two hours credit. Th., 3:15.

ASIATIC HISTORY.

Professor Marston.

11. Contact between Occident and Orient in the Nineteenth Century. India, China and Japan will be given particular attention. The chief factors which have gone to make up both the near and far eastern question will be carefully examined with reference to race and religion, the policies of the great powers, as well as the interests and ambitions of the minor states most concerned. The lectures will cover such topics as: the mental outfit of the Asiatic and his habitual views of life; a comparison of the Asiatic with the western mind; the historic influences of Europe upon Asia, and of Asia upon Europe.

Omitted 1910-11.

EUROPEAN HISTORY.

Associate Professor Nickell.

5. Ancient History. A brief outline of the history of Antiquity, and a more particular study of the history of Greece and of the history of Rome.

Through the year. Four hours. Omitted in 1910-11.

6. Mediaeval History. This course is a survey of continental Europe from the barbarian invasions to the close of the

fifteenth century. Special emphasis is laid upon the development of the Frankish power under the Merovingian rulers; the empire of Charlemagne; the rise of the papacy; feudalism; France under the Capetians; the Hohenstaufen rulers; the struggle of empire and papacy; Mohammedanism; the Crusades; monasticism; Germany and Italy in the later Middle Age; the Hundred Years' War; mediaeval culture; the rise of the towns; beginnings of the Renaissance.

Text-books: "History of Western Europe," Robinson. "Readings," Vol. I., Robinson.

First semester. Four hours. M., T., W., Th., 11:15.

7. English Political and Constitutional History. This course is designed as a study of the political and constitutional history of England from the Teutonic conquest of Britain to the establishment of the Tudor dynasty. In its constitutional aspect the course includes a study of Anglo-Saxon institutions; changes wrought by the Normans; the charters to the towns; the Great Charter of Liberties; important administrative changes under the Angevins; the origin of parliament, the growth and development of parliament; the judicial system of England.

Text-books: "A Student's History of England," Gardiner; "English Constitutional History," Taswell-Langmead; "Select Documents of English Constitutional History," Adams and Stephens.

First semester. Four hours. M., T., Th., F., 9:00.

8. Modern History. This course is a general survey of Europe from the close of the fifteenth century to the present day. It is designed as a continuation of Course 6.

The course lays emphasis upon the Renaissance; the Lutheran revolt; the Protestant revolt in Switzerland; the religious wars in France and the Netherlands; the Thirty Years' War; France under the Bourbons; the rise of Prussia; Russia as a European state in the modern period; the French Revolution; the Napoleonic Era; the revolutions of the nineteenth century.

Text-books: "History of Western Europe," Robinson. "Readings," Vol. II., Robinson.

Second semester. Four hours. M., T., W., Th., 11:15.

9. English Political and Constitutional History. This course is a continuation of Course 7. It embraces a study of the political and constitutional history of England from the accession of the Tudors to the Third Reform Bill. The course emphasizes the absolutism of the Tudors; the Civil War and the Commonwealth; the changes brought about by the Revo-

lution of 1688; the rise of Cabinet Government; the tendencies of the nineteenth century.

Text-books: "A Student's History of England," Gardiner; "English Constitutional History," Taswell-Langmead; "Select Documents of English Constitutional History," Adams and Stephens.

Second semester. Four hours. M., T., Th., F., 9:00.

14. Europe in the 17th and 18th Centuries. This course is a study of the rise of France to preeminent power, and the beginnings of her decay; the rise of Prussia and Russia; something of England's expansion in these centuries; the French Revolution; the era of Napoleon.

Pre-requisite: Courses 6 and 8.

Second semester. Four hours. Omitted in 1910-11.

15. The Era of the Renaissance and Reformation. This course is intended to include the general history of Europe in the 15th and 16th centuries, with particular and detailed study of the two movements named.

Pre-requisite: Courses 6 and 8.

First semester. Four hours. Omitted in 1910-11.

16. Europe in the 19th Century. This course is concerned with a study of European affairs from 1815 to the present time. It lays emphasis upon the effects of the revolutionary movements of the century; the development of institutions; and the progress of international relations.

Text-book: "History of Modern Europe," Fyffe.

First semester. Four hours. M., T., Th., F., 2:15.

17. International Law. This course treats of the nature and history of international law, and the rules observed among states during peace, war, and neutrality.

Second semester. Four hours. M., T., Th., F., 2:15.

ECONOMICS.

Professor Marston.

Course 1 is not open to freshmen. It must precede all other courses and is required of those taking their major in history. The work will be carried on by means of text-books, except courses 5 and 6, lectures, discussions, reports and required readings. Oral and written exercises and separate and final examinations are held on both texts and lectures in all courses. The minimum requirement of reading, exclusive of the text-book, is twenty-five pages a week for every unit of credit.

1. The Principles of Economics. A general survey intro-

ductory to all other courses in economics. Its purpose is to acquaint the student with fundamental principles; to open the field for a more detailed and extensive study, and to offer such rules and principles as are contributed to business success by the science of economics.

Text-book: "Principles of Economics," Ely.

First semester. Four hours. M., T., Th., F., 2:15.

2. The Principles of Public Finance. A general course embracing: (a) public expenditures, their nature, classification and relation to public welfare, lectures; (b) public revenues, their classification, nature and characteristics. Taxation will receive particular attention. Its nature, principles, sources, limits, incidence and influence, and in the study of its particular forms, as the general property tax, income, inheritance and business taxes. (c) Public Credit; when and how employed; contraction of public debts, their classification, flotation, conversion, funding and redemption. (d) Financial Administration; the budget, its preparation, form and composition; collection of revenue; war financiering. Text-book: "Finance," Adams.

Omitted in 1910-11.

3. Economic Problems. This course embraces a study of labor and capital; free trade and protection; immigration; industrial crises; transportation and railroad rates; the trust problem and municipal ownership. Taussig, "Tariff History of the United States" and Adams and Sumner, "Labor Problems," will be two of the text-books used.

Second semester. Four hours. M., T., Th., F., 2:15.

4. Money, Credit and Banking. An examination of value and functions of money; standards of value; currency systems of the world; a review of the positions of the bimetallists and the quantity theorists; systems and coinage of metallic currency; credit, credit documents; paper money, convertible and inconvertible notes; clearing houses; foreign exchanges; banks and banking; modern currency problems; foreign banking systems.

Second semester. Four hours. M., T., W., Th., 9:00.

6. Economic Seminar. The course is designed to afford training in economic investigation and practice in the use of sources. Each member of the class is expected to complete some single topic, embodying the results of his special research, and present it in the form of a written thesis for criticism and discussion. The field from which topics are chosen will vary from year to year. Open only to seniors.

Through the year. One hour attendance and two hours credit. T., 8:00.

SOCIOLOGY.

Professor Luehring.

1. **Elements of Sociology.** A preliminary and general survey of the field of Sociology; the origin, nature and development of society. Some of the leading sociological theories will be examined and discussed. Studies will also be made of local, urban, and rural society. Lectures, text, assigned readings, social investigations.

Pre-requisite History I and Economics I or equivalent.

First semester. Three hours. T., W., Th., 8:00.

2. **Social Institutions of Organized Christianity.** The modern missionary movement; the social evils of the non-Christian world; the social influence of primitive religions; institutional work of the church; and a consideration of the contribution of Christian missions to social progress.

Omitted in 1910-11.

3. **Rural Sociology.** Social conditions in American rural communities; a study of the advantages and problems of life in the country, as manifested in connection with health, wealth, sociability, education, and religion. Organized efforts for rural progress. Special studies will be made of the state of Wisconsin. Lectures, assigned readings, studies of rural social conditions. Prerequisite course I.

Second semester. Three hours. T., W., Th., 8:00.

MATHEMATICS.

Professor Kean.

Mr. Mergendahl.

1. **Algebra.** The first two weeks of this course are given to a review of the topics covered by the college admission requirements in Algebra. The remainder of the course is given to the study of progressions, complex numbers, logarithms, undetermined coefficients, the binomial theorem, permutations and combinations, probability, determinants, and the theory of equations with special reference to the solution of numerical equations of the third and fourth degree.

First semester. Three hours.

Section 1: M., W., F., 9:00.

Section 2: T., Th., S., 9:00.

Professor Kean and Mr. Mergendahl.

2. **Plane Trigonometry.** This course covers the elemen-

tary theory of trigonometric functions and the elements of logarithms. Special stress will be laid on practice in computation, the solution of triangles, and the reduction of identities.

Second semester. Three hours. The sections and hours of meeting as in Mathematics 1.

Professor Kean and Mr. Mergendahl.

3. Mechanical Drawing. Free-hand lettering; working drawings; isometric projection; sections and intersections; developments.

Through the year. Three hours. M., W., F., 10:15-12:15. Mr. Mergendahl.

4. Plane Surveying. Use of instruments; field problems; computation; topographical drawing; theory of simple railroad curves. This course is open only to those who have obtained a grade of not less than C in Mathematics 2.

Second semester. Four hours. Periods to be arranged. Mr. Mergendahl.

7. Descriptive Geometry. Problems relating to the point, line, and plane. The generation and classification of lines and surfaces; planes tangent to surfaces of single and double curvature; intersections, developments, and revolutions. Prerequisite: Mathematics 3.

Through the year. Three hours.

Given in alternate years. Omitted in 1910-11.

Mr. Mergendahl.

8. Plane and Solid Analytic Geometry. The aim of this course is to acquaint the student with analytical methods of investigation and to familiarize him with the general properties of conics and a few higher plane curves, including a discussion of the general equation of the second degree and its geometrical interpretation. To this is added a brief course on the analytic geometry of three dimensions.

Prerequisite: Mathematics 1 and 2.

First semester. Five hours. M., T., W., Th., F., 8:00.

Mr. Mergendahl.

9. Differential Calculus. The principles of the differential calculus are developed and applied to functions of one and of several variables, with constant applications to problems in Geometry and Mechanics. Prerequisite: Mathematics 8.

Second semester. Five hours. M., T., W., Th., F., 8:00. Professor Kean.

22. Integral Calculus. This course together with Mathematics 9 constitutes a year's continuous work in calculus. The general principles of the integral calculus are developed with usual applications to geometry, centers of gravity, moments of

inertia, etc. A brief introduction to ordinary differential equations is also included. Prerequisite: Mathematics 9.

First semester. Four hours. M., T., Th., F., 8:00.

Professor Kean.

15. Differential Equations. Integration of differential equations of the first order, of differential equations of higher order than the first, and of systems of differential equations; integration of linear differential equations by means of series or definite integrals; integration of partial differential equations and of systems of such equations. Applications throughout the course to problems in Mechanics and Geometry. Lectures, problems, and conferences. Prerequisite: Mathematics 22.

Second semester. Four hours. M., T., Th., F., 3:15.

Professor Kean.

17. Theory of Equations. A continuation of the theory of equations given in college algebra (Mathematics 1). It is based on Burnside and Panton's Theory of Equations, Part One. Prerequisite: Mathematics 8.

First semester. Four hours. M., T., Th., F., 3:15.

Professor Kean.

18. Theory of Determinants. The general principles and properties of determinants, including determinants of special form and the functional determinants—Jacobians, Hessians, and Wronskians. The application of determinants to the theory of equations, analytic geometry including linear transformation. Prerequisite: Mathematics 9.

Second semester. Three hours. M., W., F., 10:15.

Professor Kean.

19. Theoretical Mechanics. An elementary course in analytical mechanics, open only to those who have had Mathematics 22.

Through the year. Three hours.

Professor Kean.

20. Infinite Series. Convergence and divergence; series as a means of computation; Taylor's Theorem; algebraic transformation of series; continuity, integration, and differentiation of series. Lectures, problems, conferences. Prerequisite: Mathematics 22.

Second semester. Two hours.

Professor Kean.

21. Seminary and Thesis.

Through the year. Two hours.
Professor Kean.

ASTRONOMY.

Professor Kean.

1. **Elementary Astronomy.** This is a course for beginners, and does not require mathematics. From lectures and the text, the student will be given a general view of the subject, and this class room work will be supplemented by direct observation of the sky. Besides identifying the principal constellations, each student will follow such changes as the motions of the moon and the planets, and the fluctuations of the variable stars. Aside from direct observation and some simple work with the instruments of the observatory, the course will be supplemented throughout by illustrated lectures.

Second semester. Four hours. M., T., F., 2:15, Th. 7:00.

2. **General Astronomy.** This course is not a continuation of Astronomy 1. The same field is covered, but with more mathematical and observational work; illustrated lectures. Prerequisite: Mathematics 1 and 2.

First semester. Four hours. M., T., Th., F., 2:15.

BIOLOGY.

Professor Talbert.

1. **General Biology.** This course is introductory to advanced biological courses. It also meets the needs of those who wish to get some knowledge of the general principles of biology without taking an extended course. The living substance, protoplasm, is first examined and its characteristics studied. Then a detailed study is made of an animal, the earth-worm, and of a plant, the fern. Emphasis is laid upon the fundamental points of resemblance of all living things, plants and animals.

First semester. Four hours. T., F., 3:15. Laboratory, M., F., 8:00-10:00.

4. **Histology.** The student who has completed course 3 on the gross anatomy of animals is prepared to study the microscopic structure of the various tissues. Each student prepares sections, stains, and mounts tissues, and makes drawings from his own preparations and from slides belonging to the department.

Prerequisite: Course 3.

Text-book: "Histology," Hill.

First semester. Four hours. T., 11:15. Laboratory, T., Th., F., 1:00-3:00.

2. **General Botany.** A study of the morphology and physiology of the types of all classes beginning with the unicellular forms and ending with the flowering plant, much emphasis being laid on the development from the evolutionary standpoint.

Text-book: "Elementary Biology," Parker.

Second semester. Three hours. M., 3:15. Laboratory W., S., 8:00-10:00.

5. **Embryology.** Work is confined to the embryology of vertebrates, the frog and the chick serving as types. The laboratory is provided with an incubator and each student makes preparations of the different stages of development of the types studied. Prerequisite: Courses 3 and 4.

Text-book: "Embryology," Foster and Balfour.

Second semester. Five hours. M., W., 11:15. Laboratory M., T., Th., 1:00-3:00.

8. **Comparative Anatomy of Invertebrates.** The anatomy and to some extent the physiology of invertebrate animals are studied. Dissections and drawings are made of representatives of the most important classes of invertebrates.

Text-book: "Invertebrate Zoology for Laboratory Work," Pratt. "Zoology," Parker and Harwell.

First semester. Four hours. M., Th., 3:15.

3. **Comparative Anatomy of Vertebrates.** This course is designed to give an idea of the life history of vertebrates. The frog is taken as a type and a fairly complete study is made of its natural history, anatomy, physiology, and development. Instinct, intelligence, adaptation to environment, etc., are also discussed. This is followed by a comparative study of different types of chordates like the ballanoglossus, amphioxsis, perch, turtle, pigeon and some mammal. which is intended to give the student comprehensive knowledge of the structure and development of vertebrates in general.

Text-books: "Vertebrate Zoology for Laboratory Work," Pratt. "Zoology," Parker and Haswell.

Second semester. Four hours. T., F., 3:15, Laboratory, M., F., 8:00-10:00.

10. **Physiology and Hygiene.** This course is open, without prerequisites, to all college students. Only enough anatomy is studied to give the necessary foundation for an understanding of the workings of the human body. Much of the time of the course is devoted to questions of personal hygiene

and the public health. Lectures, demonstrations, and recitations, with a few laboratory exercises.

Text-book: "The Human Mechanism," Hough and Sedgwick.

Second semester. Four hours. M., T., W., F., 10:15.

6. Bacteriology. This course is intended to give training in bacteriological technique and to give a knowledge of the principles of bacteriology. The characteristics of a number of typical bacteria are worked out in detail and then the names of unknown species are determined. Experiments are performed illustrating the physiological characteristics of bacteria. Quantitative analyses are made of air, milk, water.

Text-books: "Laboratory Manual," Frost, and "General Bacteriology," Jordan.

First semester. Five hours. Th., 10:00. Laboratory, M., T., Th., 1:00-3:00.

7. Physiology. This course is especially valuable to those intending to study medicine. It will also be found helpful by students intending to teach and by those taking courses in psychology. The subject is taught by lectures, recitations, demonstrations and laboratory work. Much attention is given to muscle and nerve preparations, extrinsic and intrinsic action of the heart, blood pressure, vaso-motor action, mechanical and chemical action of respiration, tests for foods and the artificial digestion of foods, functions of brain and spinal cord, and special senses.

Text-books: "Introduction to Physiology," Porter, "Manual of Physiology," Stewart; "Physiology for Students," Howell.

First semester. Five hours. T., W., Th., 9:00. Laboratory.

11. Journal Club. This course consists mainly of the review of articles in the biological journals. Only students who are making biology their major subject are admitted to this class.

Through the year. One hour.

CHEMISTRY.

Professor Gilman.

Mr. Raulston.

The Department of Chemistry, in a variety of courses, offers to the students ample facilities to prepare themselves for modern laboratory practice. The work of the first year consists of a thorough course in general chemistry and qualitative analysis, including lectures, recitations and laboratory experi-

ments. During the second year the students are given a systematic training in analytical methods, which is followed in the third year with courses in organic chemistry, and in the fourth year with courses in physiological and physical chemistry. To students intending to pursue the study of medicine, opportunity is given to prepare for meeting the requirements now prescribed for candidates by the foremost medical schools of the country.

First Year.

1. **General Chemistry.** The work in this department begins with a course in elementary inorganic chemistry with laboratory practice. It includes a study of the fundamental laws, and the non-metallic elements and their compounds. Lectures, recitations, quizzes, problems.

Prerequisite: Elementary Physics.

First Semester. Four hours. W., 9:00; Th., 10:15; F., 11:15. Laboratory, M., F., 8:00-10:00 or T., Th., 8:00-10:00.

2. **Qualitative Analysis.** This is a continuation of course 1. A careful investigation of the metallic elements and their compounds is made during the first part of the semester, and the remainder of the time is devoted to Qualitative Analysis.

Prerequisite: Chemistry 1.

Second semester. Four hours. Th., 10:15; F., 11:15. Laboratory, M., F., 8:00-10:00; or T., Th., 8:00-10:00.

Second Year.

3. **Quantitative Analysis.** Lectures, recitations and laboratory practice in the use of the methods of gravimetric and colormetric analysis; separation and estimation of metals, acids, and water of crystallization.

Prerequisite: Chemistry 2.

First semester. Four hours. Th., 11:15. Laboratory, M., T., Th. 1:15-3:15.

4. **Analytical Chemistry.** This is a continuation of course 3. Special applications of volumetric analysis; analysis of alloys, mineral and water analyses. Prerequisite: Chemistry 3.

Second semester. Four hours. T., Th., 11:15. Laboratory, T., Th., 1:15-3:15.

Third Year.

7. **Physical Chemistry.** An elementary course based upon Walker's Introduction to Physical Chemistry as a text. The laws of gases, substances in solution, theory of ions, and the

principles of electro-chemistry. Recitations and lectures. Prerequisite: Chemistry 4 and Physics 1 and 2.

First semester. Three hours. M., W., F., 10:15.

6. Organic Chemistry. A course in general organic chemistry. Lectures, recitations, and laboratory work. The Aliphatic Series with special reference to the more important hydrocarbons and their derivatives. Prerequisite: Chemistry 3.

Second semester. Five hours. M., W., F., 10:15; Laboratory, S., 8:00-12:00.

Fourth Year.

5. Medical and Physiological Chemistry. A technical course for those who are preparing for the medical profession. This includes the examination of blood, muscular tissue, gastric digestion, testing of milk, and urinary analysis. Prerequisites: Chemistry 3 and Biology 1.

First semester. Five hours. T., Th., F., 3:15; Laboratory, M., F., 1:15-3:15.

10. Advanced Organic Chemistry. The Aromatic Series. Lectures, recitations, and laboratory work. Prerequisite: Chemistry 6.

First semester. Four hours. M., W., 11:15; Laboratory, M., F., 1:15-3:15.

9. History of Chemistry. This course is designed for advanced students. During the first semester a study will be made of the history of chemistry, and during the second semester the historical development of the important theories of chemistry. Prerequisite: Chemistry 3.

One hour. Time arranged on consultation.

8. Research Work. This course is designed for advanced students in chemistry. Special subjects, and the amount of credit will be arranged on consultation with the instructor.

11. Journal Club. This course consists of discussion of articles appearing in the Scientific Magazines. An elective course for students in advanced Chemistry.

One hour through the year. Time arranged on consultation.

GEOLOGY.

Professor Gilman.

Mr. Raulston.

1. Mineralogy. This course includes Crystallography, blowpipe analysis, and descriptive Mineralogy. The laboratory work consists of a study of the common rock-making

minerals with reference to their chemical composition, physical properties and action under the blowpipe.

Prerequisites: Chemistry 1 and 2, and Physics 1 and 2.

First semester. Four hours. T., Th., 10:15. Laboratory T., 1:15-3:15, S., 10-12.

2. **General Geology.** The object of this course is to make a study of structural, dynamical and physiographical Geology with special reference to the geology of Wisconsin.

The work of the class-room is supplemented by field work in the neighboring region.

Prerequisites: Chemistry 1 and 2, Biology 1.

Second semester. Three hours. T., Th., F., 10:15.

PHYSICS.

Professor Barber.

General Physics. Fundamental principles of physical science for those contemplating the study of any pure science, or engineering, or medicine, or teaching, are presented mainly from the experimental standpoint. The instruction in lectures recitations, quizzes, problem papers and private readings is entirely concerned with the principles studied in the laboratory and the practical applications of the same. In this manner a thorough grasp of foundation principles is obtained by continually connecting theory and experiment.

The laboratory work is exclusively quantitative, the aim being to present the subject as a science of exact measurement. The apparatus is all new and much of it but recently designed for this particular line of work. With it the student is put in touch with the methods and instruments of modern physical investigation.

Prerequisite: Trigonometry.

General Reference Text: Watson, "Physics."

1. **Mechanics, Molecular Physics and Heat.**

Text-book: Millikan, *Mechanics, Molecular Physics and Heat*.

First semester. Five hours. T., Th., 9:00.

Laboratory, M., W., F., 8:00-10:00.

Second division arranged on consultation.

2. **Electricity, Magnetism, Sound and Light.**

Text-book: Millikan and Mills, *"Electricity, Sound and Light."*

Second semester. Five hours as above.

3. **Advanced Course in Light.** Geometrical and Physical Optics will be treated in detail. Under the former head, some

of the most important optical instruments will be studied; under the latter the wave theory of light will be developed.

This course aims to be a practical and useful study of optics. Spectroscopy, diffraction, dispersion, interference, and polarization will be discussed thoroughly in lecture and recitation, and this discussion followed by accurate measurements in the laboratory.

Prerequisite: Courses 1 and 2.

Text-book: Edser, "Light for Students."

First semester. Four hours. T., Th., F., 11:15. Laboratory, M., 1:15-3:15.

4. Advanced Course in Heat and Molecular Physics. The aim of this course is to give a comprehensive view of the science of heat in its theoretical and experimental aspects, consequently much of the recent work in this subject is discussed. The laboratory exercises consist of exact measurements in mercurial and air thermometry and calorimetry, determinations of the mechanical equivalent of heat, coefficients of expansion and conductivity, vapor pressures and densities, freezing and boiling points, latent and specific heats, hygrometry and pyrometry. Particular attention will be given to the errors peculiar to heat measurements and the elimination of the same.

Prerequisite: Courses 1 and 2.

Text-books: Edser, "Heat for Advanced Students," and Poynting and Thompson, "Heat."

Second semester. Four hours. T., Th., F., 11:15. Laboratory, M., 1:15-3:15.

5. Mathematical Theory of Electricity and Magnetism. This course discusses the fundamental principles of the mathematical theory of electricity and magnetism and their more important applications.

Prerequisite: Courses 1, 2, and Calculus.

Text-book: Foster and Porter's Electricity and Magnetism founded on Joubert's *Traité Élémentaire D'Electricité*.

First semester. Three hours. M., W., 11:15. F., 10:15.

6. Electrical Measurements. A laboratory course of systematic instruction in precise electrical measurements for students of Physics and Electrical Engineering.

Prerequisite: Courses 1, 2, and Calculus.

Text-books: Carhart and Patterson, "Electrical Measurements;" Parr, "Practical Electrical Testing in Physics and Electrical Engineering."

First semester. Three hours. Laboratory periods arranged on consultation.

7. Kinetic Theory. A course introducing the mathematical theory of the subject, with collateral reading in Meyer's Kinetic Theory of Gases and Preston's Theory of Heat.

Prerequisite: Courses 1, 2, 4, and Calculus.

Text-book: Boynton, "Kinetic Theory."

Second semester. Three hours. M., W., 11:15, F., 10:15.

9. History of Physics. A course devoted to readings and discussions in order that the student may become acquainted with the historical development of Physics.

Open only to Juniors and Seniors in Physics.

Text-book: "History of Physics," Cajori.

Second semester. One hour. Arranged on consultation.

8. Colloquium. At the weekly meetings the students present before the class for informal discussion reviews of articles appearing in the scientific journals. The course also aims to teach the student the efficient use of a reference library and of the various indexes and catalogues. Each student is required to prepare a bibliography of some one physical subject.

Open only to students who take their major or minor in Physics.

First semester. One hour. Arranged on consultation.

10. Course for Teachers. A course designed especially to meet the needs of students who expect to teach Physics in the secondary schools.

Prerequisite: Courses 1, 2, 3, and 4.

Second semester. Two hours. Arranged on consultation.

MUSIC.

Professor Bintliff.

Courses in the Theory and History of Music as outlined in detail in the pages devoted to the School of Music will be credited as college electives. The maximum amount of credit allowed toward the degree of Bachelor of Arts will be twelve hours.

THE COLLEGE AWARDS.

DEGREES.

Bachelor of Arts. The degree of Bachelor of Arts is conferred by the Board of Trustees, after recommendation by the Faculty, upon those candidates who have completed the collegiate requirements. These are as follows: The student must have a total credit of one hundred and twenty semester hours in the college courses. In addition to this he must either present an acceptable thesis upon some theme related to the major subject of his course, or substitute for the thesis an advanced course during the senior year. The time required for the fulfillment of these conditions is usually four years.

Master of Arts. The degree of Master of Arts may be conferred upon any graduate of this College, or of any college offering substantially equivalent courses, who shall have completed an approved course of non-professional study equivalent to an additional year of college work, one-half of which, at least, is in a single department or in closely related departments. This work may be done during one year in residence at the College, or in the case of graduates of this College, during two years of non-residence. Examinations are required in all work of the approved course, and a satisfactory thesis upon some phase of the course must be presented at least one month before the close of the college year. Fees for all special examinations and the usual fee for the diploma are required.

PRIZES AND HONORS.

The following prizes are open to competition for the year 1909-10:

Mrs. John James English Prize Fund. These prizes are paid from the interest of a fund of \$1,500 given by Mrs. John James of Boston for the encouragement of English Composition in the College. Each prize will amount to about \$15; the second prize to \$10.

Prizes will be awarded the two successful contestants in the freshman class, on the basis of clearness of style, excellence in punctuation, in sentence and in paragraph structure, as shown in the manuscripts of the freshman year English exercises.

In 1910-11 these prizes will be awarded to members of the sophomore and junior classes. The assignment of the

prizes will be based on excellence in writing, but the competing compositions may concern themselves with any subjects of general or academic interest. Sophomores or juniors who wish to become candidates for these prizes should hand their productions to either of the professors of English, on or before May 1, 1911.

Prizes will not be awarded in any class for inferior work, or if there are less than twelve contestants.

Class of 1891 Prize for Oratory. A silver cup, valued at \$65, upon which shall be inscribed from year to year, between 1906 and 1915, the names of the winners in the home oratorical contest. The cup is to be the property of the College and will be kept on exhibition in some suitable place.

J. T. Lewis Prize Fund. This was established by Hon. J. T. Lewis of Columbus. The annual income of a fund of \$200 will be awarded to the student who prepares the best set of notes and drawings on the biological work of the freshman year. It will not be granted for inferior work.

Class of 1896 Memorial Prize Fund. The income, about \$20, of the Memorial Prize Fund of the class of 1896, will be awarded the successful contestant in a declamatory contest between members of the junior class each year.

Prize Scholarship. A friend of the College offers annually a prize to the member of the Senior class who shows the greatest proficiency and the best preparation for graduate study in any subject or subjects other than Mathematics or Science. The award will be made on the judgment of the Faculty, who will take into account the general scholarship of the student and his thesis. The prize is intended only for those who expect to do graduate work and is sufficient to pay all tuition charges at the University of Wisconsin or the University of Chicago. Candidates for this prize should make application to the Registrar by May 25th of each year.

Department Fellowships. The head of each department has the privilege of recommending, for ratification by a vote of the Faculty, one advanced student of high standing as Fellow in the department.

The Rhodes Scholarships. In order to keep this well-known bequest before the minds of present or prospective students, it is briefly mentioned here. Circulars of full information can be obtained at the registrar's office. Any male student, who is a citizen of the United States and unmarried, not less than nineteen nor more than twenty-four years of age, and who has reached the end of his sophomore year of study, may be a candidate for one of the Wisconsin scholarships. This

insures to the winning contestants among the schools of the State a three-year residence in Oxford University, England.

All competitors must be prepared to take an examination in the following subjects: Arithmetic, the Elements of Algebra or the Elements of Geometry, Greek and Latin Grammar, translation from English into Latin, one Greek and one Latin book from authors such as Caesar, Cicero, Livy, Horace, Virgil, Homer, Xenophon, Plato, Sophocles, Euripides, and Demosthenes.

University Fellowship. The University of Wisconsin through its President, has extended to Ripon College an invitation to appoint one of its graduates each year to a Fellowship in the University. The value of this Fellowship is \$225 a year.

ACADEMIC DISTINCTIONS.

At the end of each college year the Faculty will award distinctions to students who have attained high standing in the work of the year. These awards will be of two grades, "honors" and "highest honors," and will be given under the following conditions. Class honors will be granted to members of the four classes. A student who has received a grade of A in one-half of his work and a grade of B in the other half will be given "honors," one who has received a grade of A in three-fourths of his work and a grade of B in the other fourth will be given "highest honors." Final "honors" and "highest honors" will be awarded on the same basis as class honors, except that the work of the entire college course will be considered. The names of those who are admitted to these distinctions will be announced at the commencement exercises.

THE COLLEGE ADMINISTRATION. GOVERNMENT.

Training in self-government is an important factor in education. To this end each dormitory has its own house committee and the College Commons is managed by the Co-operative Dining Association. The College Senate represents the student body in matters pertaining to the general welfare of the students. At the beginning of the year each new student is assigned to a member of the Faculty whose duty it is to advise the student in regard to his studies. The various activities of the students are supervised by the proper committees of the Faculty.

THE COLLEGE YEAR.

The College year is divided into semesters. For the coming year the first semester begins on September 13th, 1910; the second on January 30th, 1911. A number of courses, complete in themselves, begin in the second semester. Students who enter College at that time will be able to avail themselves of such courses.

Besides certain of the usual legal holidays, there are two longer vacations during the College year; one of two weeks at Christmas, and another of one week at Easter. The Christmas vacation for this year begins at 3:15 p. m. Thursday, December 22nd and closes at 8:00 a. m. Thursday, January 5th, 1911. The Spring vacation for 1911 extends from 3:15 p. m. Tuesday, April 11th to Thursday, April 18th at 8:00 a. m. The Thanksgiving recess begins on Wednesday, November 23rd, at noon and closes at noon on Monday, November 28th.

EXAMINATIONS.

The student's grade is determined on the basis of the class room work with the added test of examinations at the end of each semester. A permanent record of the entire work of each student is made at the close of each semester. This record is based upon the character of the recitations, accuracy of the laboratory and research work, and regularity of attendance.

A student who is absent from the last recitation period preceding the Christmas or Easter vacation, or the Thanksgiving recess, or from the first recitation following such vacations, will not be allowed to take the final examination in the subject missed, but may take it when the next regular examination in the subject is given. For special examinations, a fee of one dollar, payable at the college office, is charged.

BUILDINGS AND EQUIPMENT.

THE COLLEGE BUILDINGS.

Ingram Hall, completed in 1900 and named after one of its principal donors, Mr. O. H. Ingram, of Eau Claire, is the main lecture hall of the College and contains the College Library. On the first floor are situated the offices, the lecture rooms, and laboratories of the departments of Biology and of Physics, and also the stack room of the Library. The second floor is occupied by lecture rooms and by the reading room and office of the Library. On the third floor are the Chemical laboratories and the lecture rooms of the department of Philosophy and Education.

East College, the first building erected on the college campus, has been entirely remodeled. It now contains the offices of the College and the studios and practice rooms of the School of Music. The Young Men's and Young Women's Christian Associations also have rooms in this building.

Middle College, now called Smith Hall, in memory of the late Elisha D. Smith of Menasha, was opened as a dormitory in 1903. It is heated by steam, lighted by gas and electricity, and thoroughly equipped throughout. Besides the student apartments, this hall contains a reception room, a hospital room, and in the basement an excellent bowling alley.

West College contains the College Commons. By means of funds provided by the Alumni, the first floor has been made into a thoroughly equipped modern dining room. The Coöperative Dining Association which has charge of the Commons provides a most excellent quality of board at small cost. The dining room is large, finished in oak, is well lighted, and has two open fireplaces. There are ample cloak and waiting rooms, and the kitchen and serving rooms are models of convenience, making it possible to serve the best meals at the lowest expense. This new Alumni Hall adds much to the comfortable living of the students. The second and third floors of West College are used as dormitories for men and are equipped in the same thorough manner as the rooms in Smith Hall. The dormitory has also a large, pleasantly situated, and attractively furnished common room.

Bartlett Cottage, the Dormitory for women, named in honor of the late Sumner Bartlett of Oshkosh, is situated at the Southwest corner of the campus, just opposite the President's house. It is steam heated throughout and is supplied

with hot and cold water. The suites for students consist of a study and bedroom, with the heavier pieces of furniture. In addition to these, the building contains a reception room and a library, a guest room, and also a kitchen and dining room for occasional use. The reception room is at the left of the entrance corridor; the rooms occupied by the resident Faculty member, Miss Simmons, are at the right. Extensive improvements have recently been made throughout the building.

Dawes Cottage. This is a frame building now used as a dormitory for men and is also the home of the engineer of the College.

Society Hall. The Old Chemical Laboratory, vacated when Ingram Hall was built, has been remodeled for other purposes. The north room is used for band practice, for debating societies and other men's clubs, on permission from the college office. The south room is used by the department of Mathematics, and is well equipped for the work of mechanical drawing.

The President's House. Dr. Merriman built for himself a large house just south of the College Campus. This house is now the property of the College, and is the residence of the President of the College.

Central Heating Plant. A complete central heating plant has recently been installed. The system results in increased comfort in the buildings, and in a large saving in cost. The steam supply pipes connecting the various buildings with the boilers, are so thoroughly insulated in the conduits, that the waste from radiation is reduced to a minimum. The boilers carry high pressure steam, and there is room in the boiler house for installations of dynamos for the production of light and power. This heating system has proved a success from every point of view.

The Gymnasium. The plans for the new gymnasium were drawn by Shepley, Rutan and Coolidge of Chicago and the contract has been awarded to John W. Immel of Fond du Lac. The specifications of the contract call for the completion of the central building by August 1, 1910. The completed gymnasium will consist of a central building containing a dirt floor athletic field, 120 by 90 feet, and two wings to be used for regular gymnasium work. The north wing will be equipped for men, and the south for women. The central building will contain a running track, a gallery for spectators, and a portable grand stand. The equipment of the new building will include commodious and sanitary bathing facilities and all of the appliances for gymnasium work.

THE COLLEGE EQUIPMENT.

The College Library occupies large central rooms on the first and second floors of Ingram Hall. The main reading room is on the second floor, and there is also a reading room on the first floor in connection with the stack room.

The library, according to the latest accession number, contains 18,219 volumes, exclusive of pamphlets, of which there are about 2,500. This does not include books added after May 1, 1910. It is made up of the libraries of the different departments. The aim of the College in regard to the library has been to get the best books by the best men. The result is an excellent working library, containing standard editions, critical works, books of reference, bound periodicals, etc. There are also several rare and valuable original copies from the early seventeenth and eighteenth centuries, and a few transcripts and reprints of works of earlier date. The library has nearly complete bound sets of the standard American and British magazines, and receives nearly all of the leading journals of a professional or technical character.

In addition to the above library and reading room facilities on the campus, students have access to the city library, now in the new Carnegie building, one block from the campus. The college library and the city library are largely supplementary, the former being strong in works of reference, the latter naturally furnishing books of more general interest. Both are open with a uniform rule to students and citizens.

The Department of Religious Education has a good collection of appliances for modern religious education, including the leading graded text-books in the Bible, complete sets of the Tissot and Wilde pictures and those of the Presbyterian Board, and numerous books and other materials of value to those engaged in Sunday School work, or preparing for it. The department provides actual work in selecting and preparing materials for the various grades, and in teaching classes in a thoroughly graded school.

The Department of Biology occupies the east end of the first floor of Ingram Hall. Its equipment comprises four laboratories, one each for Anatomy, Bacteriology, Physiology, and Histology and Embryology. All are equipped with the best and newest apparatus. The vivarium and the injection rooms are in the basement. Adjoining the laboratories is the lecture room, arranged conveniently for the work. Storage and preparation rooms adjoin. The equipment increases yearly, and includes, among the various pieces of apparatus, physiological instruments, such as kymographs, capillary electrome-

ters, moist chambers, rheocords, ergographs, inductoriums, muscle and heart levers, manometers, plethysmographs, sphygmographs, tambours, work adders, signal magnets, microscopes, compound and dissecting, camera lucida, paraffin bath, centrifuge, incubator, besides numerous tanks and aquaria with running water. There have been lately added eight new Leitz microscopes of the latest pattern. These were made especially for Ripon College. The department has also increased its efficiency by securing a new rotary microtome for cutting sections for the microscope, and a new electrical clock for timing delicate experiments. There have been added, during the past year, several hundred dollars worth of apparatus in duplicate for student work. This apparatus, as well as the laboratory manual used, is the same as that in use at the Harvard Medical College.

The Department of Physics is located in the west end of the first floor of Ingram Hall, and occupies the following: A laboratory for electricity, magnetism, and mechanics, one for heat, molecular physics, and sound and a dark room, besides an office and lecture room adjoining. The electrical laboratory is furnished with four slate-capped piers brought up from the foundations. These are of great value for delicate work where all jarring effects must be avoided. A good deal of apparatus has been recently added to the equipment of the laboratories. It includes an American miliammeter, a ballistic pendulum for measuring elastic and inelastic impacts, a cathetometer of the best type for measuring vertical distances, two ballistic galvanometers, Michelson's interferometer, and a spectrometer with polarizing attachments. The equipment of this laboratory also includes a successful wireless telegraph instrument made by one of the students. The laboratory for heat, molecular physics and light is equally well equipped.

The Department of Chemistry occupies the third floor of Ingram Hall; it has a large lecture room with a stock room in close connection. The stock room is conveniently arranged for chemicals and apparatus. Across the hall are the office library and balance room and the laboratories for general chemistry, qualitative, and quantitative analysis. There are also laboratories for organic chemistry and for private research. All laboratories are supplied with hoods and with individual desks, and each desk is furnished with lockers, gas and water. The lecture room has every facility for demonstration and the department is well equipped throughout.

Athletic Equipment. The success of the athletic management is shown in the winning teams in various intercolleg-

iate events, and in the improved health of the individual students. By placing the gymnasium work and the training of all teams under the care of a thoroughly trained specialist, who is a regular member of the college faculty, athletic training has been developed to a high degree of efficiency.

The College is fortunate in possessing an excellent athletic field. Recently a quarter-mile cinder track has been built on the field. There is also ample space in the field for football and baseball. The field has the added advantage of being near the railroad stations and the college campus.

Archaeological Collections. The departments of Latin and Greek possess an unusually fine collection of archaeological material. There are several thousand carefully selected photographs and slides, illustrating Greek and Roman history, geography, life and art. Also a small but carefully chosen collection of antiquities of special interest to students of the classics. There are 250 different Roman coins of the most important reigns of the Empire; more than fifty terra cotta lamps illustrating all the types, many of which are figured; Etruscan, Greek and Roman vases dating from 750 B. C. to about 300 B. C.; bronze fibulae, keys, letter stamps, bone stili, spoons, dice, etc.; several fine specimens of glass from Greece and Italy; inscribed amphora handles and numerous other articles connected with the daily life of the ancient Romans.

The Barber Collection of Minerals. The nucleus of this collection was given to the college by the Rev. Geo. W. Barber. It is named after the donor, who, being an Amherst man, collected many of the specimens under Professor Shepard, of that school. This is supplemented by the New Orleans Collection, obtained through the influence of the Hon. E. D. Holton, of Milwaukee, from the New Orleans Exposition; and by the Armstrong collection of 500 minerals and rocks.

In addition to these collections is the "Educational Series of Rocks," furnished by the United States Government, and several valuable specimens from the mining regions of Wisconsin and Michigan.

Nearly 2,000 specimens in all are listed, coming from various parts of the world. Besides this central museum, there are numerous working sets for use in the classes of mineralogy. These sets include hand specimens for study and tubes of powdered mineral for blow-pipe analysis.

Biological Museum. This contains a collection of invertebrates and vertebrates systematically arranged. The study of the few typical forms of animals studied in the laboratory can

thus be supplemented by an investigation of the greater variety of forms to be found in the museum.

An interesting and valuable part of the exhibit is the Congdon collection of birds' eggs. These eggs, representing a large amount of research carried on in Wisconsin and Canada, were collected by Russell T. Congdon, of the class of 1903.

THE COLLEGE LIFE.

STUDENT FELLOWSHIP.

One of the inherent advantages of colleges of the size of Ripon is that students are brought into closer relations with their instructors, and into sympathy with one another. The college is a social democracy. In class room, at the commons, in the dormitories and on the campus the equal rights and equal privileges of all students are fully recognized.

SOCIAL LIFE.

A wholesome social atmosphere pervades the institution. This not only affects the life of the dormitories, but also promotes the social spirit between student and student and between student and faculty. Class or college functions through the year, sometimes initiated by the students, sometimes by members of the faculty, make the year as a whole contribute largely to the social enjoyment of the students.

The management of the dormitories is largely in the hands of the students living in them. The occupants of each hall elect annually from among their number a board of control, known as the House Committee, which is responsible for the regulation and direction of all internal affairs in accordance with the will of the majority. In this way, the dormitory becomes a social unit, and differs from a club or fraternity only in that it insures the finest sort of student democracy.

The faculty committee on dormitories acts as an advisory board for the house committees.

RELIGIOUS LIFE.

The college is distinctly Christian and regards the development of Christian character as its greatest work. It is unsectarian in its management. On entrance the student names the church of his preference. Lists are sent to the pastors of these churches. Every student is given a definite personal welcome in the church of his choice. The chapel service is held four days each week and all students are required to attend. All other services are voluntary.

Once each month a special Vesper Service, under college auspices, is held in the Congregational Church. This is made possible by the courtesy of the Church, and the coöperation of the pastor, Mr. Pillsbury. Usually an exchange is effected with a minister from Wisconsin or from a neighboring state,

who addresses the students on some vital and practical theme. The prayer meeting on Tuesday evening, the Association meetings on Sunday and Thursday afternoons, and the Bible study class are under the management of the Christian Associations. These associations send delegates to the various state and national conferences. At the beginning of the college year members of the associations meet all trains and welcome new students.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

During the formative period of college life there is great necessity for symmetrical development, for a balancing of intellectual with spiritual growth. The College Y. M. C. A. recognized this necessity and organized for the purpose of aiding this harmonious development. In opening its doors to all young men of the college, the association aims to extend its sphere of influence as far as possible. Although distinctively a student organization, the association has the active support of the faculty, some of them being members and many leading in the meetings. In order to keep in touch with the larger movement, the College Y. M. C. A. aims to be represented regularly at the state conventions and also at the yearly conference of college men held at Lake Geneva.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

The object of the Young Women's Christian Association is the development of Christian character in its members, and the prosecution of active Christian work, especially among the young women of the institution. The active membership of the association consists of women connected with the college, who are members of the Christian churches. Any woman in the college may become an associate member. The association is affiliated with the international organization.

THE ATHLETIC ASSOCIATION.

The College Athletic Association is responsible for the maintenance of the various teams and the selection of officers and managers. To secure steadiness and business method in the management, general supervision of all athletic affairs is placed in the hands of a Board of Control, representing the Faculty and the students. The athletic director is one of the Faculty members of this board. At the request of the student

body, a fee of seventy-five cents per semester, incorporated in the regular incidental fee, is collected by the College Treasurer for the support of athletics.

THE ORATORICAL UNION.

The Oratorical Union, under its present constitution, controls oratory, debate, and the "College Days." Two members of the faculty, together with the President, Vice President, and the Secretary of the Union, the Editor and Business Manager of the College Days, and the Chairman of the Debate Committee, constitute a Board of Control, which has general direction of all affairs. The Union holds membership in the Wisconsin Inter-Collegiate Oratorical Association, and also in the Inter-State Oratorical Association.

COLLEGE DAYS.

The College Days has this year become a weekly publication. It continues as heretofore, to be issued by a board of editors elected by the student body. It is now in its forty-second year. It aims to record the various phases of campus life. To this end it has published recently several articles by professors and students, either the records of personal experiences or the results of special investigation. It has aimed to keep in touch with sister colleges, has noted the goings and comings of alumni, and has endeavored to record, in lighter vein, the pleasures and pastimes of the students.

THE COLLEGE BAND.

The third year of the College Band has proved most prosperous, the membership slightly exceeding that of last year. Several new instruments have been added to the equipment and the number of rehearsals has been increased to two a week. The privilege of membership in this organization is becoming more and more apparent.

RIPON COLLEGE GLEE CLUBS.

There are two Glee Clubs in the College, one for the men, known as the Ripon College Glee Club; the other for the women, known as the Cecilian Chorus. Both these clubs are in charge of the Director of the School of Music, Professor Elizabeth Battle Bintliff.

THE CO-OPERATIVE DINING ASSOCIATION.

This association has charge of the dining room and furnishes board at reasonable cost for all who desire to live at "The Commons."

DEPARTMENT CLUBS.

The educational interests of the students manifest themselves in clubs connected with the different departments of instruction. Four such clubs are now in successful operation, the German Club, the History Club, the Mathematics Club, and the Science Club. Meetings are held from time to time for the discussion of topics of interest to the several branches of knowledge represented by the clubs.

THE LEAGUE.

This is an organization of the young women who live outside of Bartlett Cottage. Like the organization within Bartlett Cottage, it is intended for unifying the varied yet common interests of its members. A rest room on the third floor of Ingram Hall has been furnished for them, where it is possible to hold meetings, or to spend a study hour between classes.

THE CRIMSON.

The Junior Class publishes a Ripon College Annual known as "The Crimson." It is a book of college life, dealing, among other things, with the faculty, class and student organizations, social life, and athletics.

GENERAL INFORMATION.

STUDENT EXPENSES.

The charge to the student is but a small part of the cost to the college. The balance of the cost is met by the income of the endowment fund, and by gifts from trustees and other friends of the college.

During the last few years Ripon College has spent a large amount of money in improving the buildings and the furnishings, and in increasing the equipment in the library and in the science laboratories. Of even greater value to the student is the fact that the faculty has been increased, and the courses of instruction enriched. For this reason, the incidental fee was slightly increased in September, 1908. In view of the value of the courses of instruction, the fine equipment in laboratories, library and lecture rooms, and the thoroughly modern conveniences in dormitories and commons, the increase in cost is small, and the total cost to the student exceptionally low.

Tuition, per semester	\$10.00
Incidental Fee, per semester	20.00

Room Rent.

Smith Hall Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room.

Rooms number 102, 103, 105, 106, 201, 203, 205, 300, 301, 303, 305, per semester..... 20.00

Rooms number 101, 107, 202, 206, 207, 302, 306, 307, per semester 22.50

Rooms number 100, 108, 200, 208, 308, per semester 25.00

West College, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester..... 20.00

Dawes Cottage, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester.....\$18.00

Bartlett Cottage, Dormitory for women, with steam heat, hot and cold water, furnished rooms, electric lights in each room, per semester \$24.00

Board.

Board is furnished in the Commons Building. This building is furnished with every convenience in dining room, kitchen and store-rooms, for giving the best board at a reasonable price. The college authorities give special attention to this Commons, audit the books and give general supervision to its affairs, but the management is largely in the hands of the Students' Co-operative Dining Association. They elect their own officers. Board is furnished at the lowest possible figure, without profit, and the cost divided equally. During the years 1909 and 1910, board has been furnished at a cost of \$2.75 per week.

There are other boarding clubs and private houses that will furnish board to students at reasonable prices. Lists of these can be had at the Treasurer's office, at the beginning of the year.

All bills for tuition and room rent must be paid at the beginning of each semester. Room rent and laboratory fees cannot be refunded to students who leave dormitories or laboratory classes during the semester.

If a student leaves college for good reason before the middle of a semester, one-half his college bills will be refunded. No refund will be made to a student who remains in attendance more than half a semester.

Dormitory rooms are furnished with all necessary heavy furnishings. Students will bring their own bedding, pillows, rug for the floor and such ornaments as they desire for their rooms. All buildings are heated with steam, furnished with hot and cold water, gas and electricity. Price of room rent in dormitories for men does not include cost of light in the rooms. Price charged in Bartlett Cottage includes electric light in each room.

The total cost for the student varies. The minimum expense will be within the reach of students of limited resources while others may easily make provision for themselves in accordance with their means.

Laboratory Fees per Semester. The cost of material in the various laboratories is charged as follows:

Physics Laboratory, per unit hour.....	\$1.50
Bacteriology and Embryology	7.50
Anatomy, Histology, Advanced Botany.....	3.00
Physiology	1.50
Chemistry, four hour course	6.00
Mineralogy	2.50
Archaeology	1.50
Breakage Deposit in Chemistry	3.00

STUDENT AID.

A standing committee of the faculty acts as an employment bureau and is always ready to assist students desiring employment. Faithful, worthy students, who are willing to work, need not abandon their course of study for lack of money. Many of the most successful graduates of the college have helped themselves in this way. Advanced students of high standing have frequent opportunity to do private teaching, and citizens of the town are ready to employ students in various capacities.

There are a few scholarships to be granted as a reward of merit to successful students.

SPECIAL FUNDS.

The College has available several funds for use as indicated below. Any one desiring to be a candidate for the benefits of any of these funds should write to the Registrar for blanks to make application therefor. These applications will be considered by the faculty committee on scholarships and the benefits will be distributed where they will appear to accomplish the greatest good.

Rufus Dodge Fund. The late Rufus Dodge of Beaver Dam left the college a legacy of \$9,000 as a permanent fund to aid young women of limited means in getting an education. The interest of this fund is available each year for distribution among such students for this purpose, according to their need.

Philo Sherman Bennett Scholarship Loan Fund. The sum of \$500, bequeathed by the late Philo S. Bennett, of New Haven, Connecticut, provides a fund "to aid poor and deserving boys to obtain an education. It is understood that the boys receiving the benefit of this fund shall be in honor bound to return to the college the money so advanced as soon as they can conveniently do so after leaving college, and the money so returned shall be used for the aid of other boys, in like manner as it was used at first."

Sumner T. Bartlett Scholarship Fund. The sum of \$1,000 was given by Mrs. Lucy Bartlett, of Oshkosh, Wisconsin, for a permanent scholarship. The condition of the scholarship is that one student at a time, forever, shall be admitted to Ripon College free of tuition, such student to be designated by the college faculty and to be one studying for the gospel ministry or for special missionary work.

Rev. E. W. Cook Scholarship Fund. The sum of \$500 was given by the Rev. E. W. Cook, of Ripon, for the purchase

of a scholarship. Free tuition is to be granted to one student at a time from the income of this fund, in perpetuity.

O. W. Van Vechtin Student Loan Fund. This was the gift of O. W. Van Vechtin, who presented to the President \$100 as a loan fund, to be under the control of the President, and to be loaned to worthy students and to draw no interest while the borrowers are in college, but from date of leaving college to draw interest at the legal rate. The interest accruing may be added to the fund or given to students at the President's discretion.

David Whitcomb Scholarship Fund. \$1,000 was given by David Whitcomb of Worcester, Massachusetts, for the purchase of a permanent scholarship, the income of which fund is to be used annually to aid needy and worthy students. By resolution of the Board of Trustees, June 20, 1885, the income is appropriated to payment of necessary term bills of young men who shall be nominated by the faculty for such credit, the sons of missionaries and ministers to be preferred, and the amount of appropriation to each pupil to be determined by the faculty.

Alumni Association, 1868—M. W. Pinkerton Memorial Fund. This was collected by the Alumni Association as a memorial to M. W. Pinkerton of the Class of 1868. For some years it has been invested by the college Treasurer, the college having no responsibility or power with reference thereto except to invest or pay over the interest as collected to the Alumni Association. A standing committee of the Alumni reports each year to the association. The interest, at present, is available only for children of missionaries.

Class of 1898 Harry D. Clark Memorial Fund. This is a fund credited to the class of 1898 as a memorial to their deceased classmate Harry D. Clark. The interest is to be used for the purchase of books for the library.

Class of 1901 Owen C. Rowlands Memorial Art Fund. The class of 1901 has provided a special fund, the interest of which is to be used for art decorations. It is a memorial to Owen C. Rowlands, a former member of the class, now deceased. During the year just passed, Mr. Humphrey Rowlands, his father, has died, leaving a legacy that will increase this fund by several hundred dollars at least.

COMMITTEE ON RECOMMENDATIONS.

The committee on recommendations renders assistance to graduates seeking employment and to employers. No charge is made for this service and the committee makes special effort

to find the position for which the applicant is prepared. School boards and others employing college graduates can depend upon the faithfulness of the recommendations given.

The call for college graduates as teachers is increasing each year. All graduates and friends of the college are asked to coöperate with this committee by notifying it of vacancies.

THE TRAINING OF TEACHERS.

The attention of students intending to prepare for teaching in high schools and academies is called, in particular, to the courses offered by the Department of Philosophy and Education, and also to the special Training Courses offered in different departments.

Each year a considerable number of the graduating class seek positions in the high schools of Wisconsin and other states. A large number of Ripon College graduates are now to be found in these schools and invariably they have met with success. This is due to the fact that courses of instruction are given by different members of the faculty to prepare for this work and to make the usual errors of young teachers less likely to occur.

In the department of Philosophy and Education thorough courses are given in the Principles, History and Philosophy of Education, together with a course in Secondary Education, designed for those who plan to become high school teachers.

In the departments of Latin, German, English and Physics every student who plans to teach these languages receives special attention in Teachers' Training Courses in which reviews are made, the real teaching experience under the guidance of the heads of the departments is secured.

It is the intention of the faculty to extend this work as rapidly as may be, and give the best of normal methods to those who desire them. Fellows are appointed who receive special training in return for such service as correcting papers, in this way getting valuable experience in the actual work of a teacher. The library, too, offers opportunities for the study of library methods.

To students who have taken these training courses assistance is given, during their senior year, that they may secure good positions. The efforts of the faculty have been remarkably successful in the past and graduates are to be found as teachers or principals in many of the important cities of Wisconsin, Minnesota and other states. While no guarantee can be made, it is safe to say that every student who proves worthy will secure a position. Superintendents and principals, under-

standing the character of the work done and the method of recommendation, are constantly writing for candidates.

INTERSCHOLASTIC MEET.

Each spring there is held at Ripon under the management of the college an Interscholastic Athletic meet. The participants in this contest are invited from among the various high schools and academies in the central part of the state. To the winning school a silver cup is given as a trophy. When this has been successfully defended for three years it passes into the permanent keeping of the winning school. Special trophies are also given to individual winners.

THE SCHOOL OF MUSIC.

The School of Music offers extended courses in the practical and theoretical study of music, designing to fit students for the professional musical life. The special purpose of instruction is to produce musicians who shall combine sound intellectual training with symmetrical development of the musical faculties. To this end all its work is planned. The regular courses are for those who wish to complete work leading to graduation; but those who wish to pursue only partial courses are also admitted. Preparatory courses have been arranged for piano, violin, and voice so that the student who is only a beginner may find opportunity for study. The emphasis will be placed on thoroughness of work, whether in the elementary or in the advanced grade.

COURSES OF STUDY.

The following outlines of courses of study in the several departments of the School of Music may be varied to meet the needs of individual students.

PIANOFORTE

Preparatory Course.

Studies in position and touch. Elementary technic. Major and minor scales in slow practice. Etudes by Burgmuller, Brunner, Duvernoy, Heller, Lecoupey, Loeschorn, Schytte. Sonatinas by Clementi, Kuhlau, Reinecke and others. Pieces to suit the grade.

First Year.

Mason Technic, major and minor scales and arpeggios. Etudes by Loeschorn, Czerny, Schytte, Heller, Bach, Little; preludes and fugues; Sonatas by Haydn, Mozart. Modern pieces. Memorizing.

Second Year.

Mason Technic. Etudes by Cramer, Turner, Heller. Bach Inventions. Sonatas by Mozart, Beethoven, Weber. Songs Without Words, Mendelssohn. Pieces by Schumann, Chopin, Schubert, Raff, Grieg, Godard, Chaminade. Memorizing.

Third Year.

Scales in double thirds and sixths. Kullak's Preparatory Octave School. Clementi's Gradus ad Parnassum. Etudes by Moscheles. English Suites, Bach; Sonatas by Schubert, Weber, Beethoven, Fantasias, Impromptus, etc., by Raff, Mendelssohn, Schubert, Chopin, Schumann. Concertos by Mozart and Mendelssohn. Concert pieces by Rubinstein, Grieg, Moskowski, MacDowell, Godard, Schytte, Schuett, Sinding. Memorizing. Ensemble playing.

Fourth Year.

Kullak's Octave School. Tausig's Daily Studies. Etudes by Chopin, Henselt, etc. Preludes and Fugues, Bach. Sonatas and Concertos by Beethoven, Chopin, Grieg, MacDowell, Saint Saens, etc. Concert pieces by Liszt, Chopin, Schumann, Rachmaninoff, Alkan, Arensky and other modern composers. Memorizing. Ensemble playing.

ORGAN.

First Year.

Rink and Dunham, Organ Schools.

Buck Pedal Phrasing studies. Bach, Little Preludes and Fugues. Trios by Rheinberger. Easy pieces by Guilmant, Merkel, Batiste.

Second Year.

Rink and Whiting, Preludes and Postludes. Bach, Preludes and Fugues. Sonatas by Guilmant, Rheinberger, etc. Mendelssohn, Preludes and Fugues. Modern Pieces.

Third Year.

Bach Chorales, Preludes and Fugues, Sonatas by Guilmant, Rheinberger, Mendelssohn. Modern Pieces.

Fourth Year.

Bach Trios, Preludes and Fugues. Sonatas by Mendelssohn, Rheinberger, etc. Concert pieces by classic and modern composers. Practical work in accompanying church services and oratorios.

VIOLIN.

First Year.

David's Violin School, Part I. Studies by Hoffmann, Ries, Hermann, Easy Pieces and Duets by Dancla, Papini,

Pleyel, Alard, Weiss, etc. Particular attention given to correct position, intonation, tone and bowing.

Second Year.

David's Violin School, Part II. Schradieck's Scale Studies. Etudes by Kayser and Mazas. Sonatas by Hadyn. Fantasias by Jensa, Singelee, Dancla, and the easier solos of Leonard, Wieniawski, De Beriot, Hauser, Sivori, Allen.

Third Year.

Schradieck's School of Technic. Etudes by Kreutzer, Fiorillo, Dont; Sonatas by Mozart, Concert Pieces by Rode, Kalewoda, Spohr, Rust, Vieuxtemps, Bazzini.

Fourth Year.

Caprices of Rode and Gavinie. Hoffmann Orchestra Studies. Beethoven's Sonatas. Concertos by Viotti, Rode, Kreutzer, De Beriot, Mendelssohn. Solos by Sarasate, Nachez, Joachim and other modern composers.

VOICE

The aim of this department is:

I. The establishment of a pure tone in which there shall be resonance, volume, flexibility, and expression. This pure tone is to be acquired by means of perfect breath control, open throat and equalization of registers.

II. A perfect blending of tone and word which results in the clear-cut enunciation desired by performer and listener.

III. The art of phrasing; versatility in style.

IV. Interpretation of songs, sacred and secular, and arias from oratorios and operas.

First Year.

Tone-Placing, Blending of Registers. Dr. Edward S. Kimball's Exercises; Henneman's 101 Exercises; Sieber Op. 92-96.

Flexibility.

Lutgen Exercises in Velocity; Sieber, Op. 42-43; Marzo's Preparatory Course.

Vowel and Consonant Work.

Vaccari Italian Exercises; Sieber 92-96; "Vowel Songs."

Phrasing.

Concone Op. 9; Easy songs for application of principles learned.

Second Year.

Marzo Book I.; Sieber Op. 45; Marchesi Italian Exercises; Sieber, Op. 30-35; Concone Op. 10. Songs, sacred and secular, of the older Italian and German composers and of the best modern composers.

Third Year.

Marzo, Art of Vocalization Books II., III.; Sieber, Op. 30-35; Concone, Op. 12; Study of the classics and arias from oratorios.

Fourth Year.

Bordogni II., III.; Aprile Exercises. Concert songs from classic and modern composers. Arias from the operas of German, Italian and French Schools.

THEORY AND HISTORY OF MUSIC.

The aim of the courses in these branches of music education is to give the student an intelligent conception of music as a science, aiding him to become a musician capable of understanding and interpreting a wide range of music and to lay a broad foundation for later studies which he may undertake in the field of composition. This work will be given in classes only. The outline of the course is as follows:

Elementary Theory.

A. Sight-reading; ear-training; elementary Harmony, including the study of intervals, notation and terminology.

Choral.

B. Advanced Sight-reading preparatory to and including the performance of the standard cantatas and oratorios.

Musical Appreciation.

C. This course will include the study of the principles of musical form, the development of music in its various branches the stories of the standard oratorios and operas, and some analytical study of the larger instrumental compositions for the piano, violin and orchestra, such as the sonata, overture and symphony. There will be lectures and illustrations. The purpose of the course is to awaken the musical taste and develop the faculty of listening and hearing intelligently. This course is supplemented by later courses in Musical Form and History.

Through the year. One hour.

Theory.

D. Harmony, first year. Eartraining.
Through the year. Four hours.

Theory.

E. Harmony, second year. Analysis of musical form.
Through the year. Four hours.

Theory and History.

F. Counterpoint. Musical History.
Prerequisite: Courses A and D.

Through the year. Four hours.

PUBLIC SCHOOL MUSIC.

This course provides instruction for those students who wish to become teachers or supervisors of music in the public schools. It may be completed in two years. The outline follows:

First Year.

Course A.—Rudiments of Music, Terminology, Notation and Sight-reading.

Course B.—Advanced sight-reading choral class including the study of standard cantatas and oratorios.

Course D.—Harmony, first year. Eartraining.

One-half Course F.—Musical History. Voice culture.

Second Year.

Methods of Teaching. Practice Teaching.

Course E.—Harmony, second year. Analysis of Musical Form.

Course C.—Musical Appreciation. Pedagogy. Voice Culture or Piano.

Students in this department must have met the college entrance requirements in English before obtaining the certificate.

LITERARY REQUIREMENTS.

Candidates for graduation must complete academic work equivalent to a high school course and including the following subjects:

History 2 units, Science 1 unit, Algebra 1 unit, German 2 units, French 1 unit, English 3 units. In addition to these subjects English 1 is required.

Candidates for graduation must give a public recital during the last year, of each course which they complete.

DAY PUPILS.

To meet the demands for musical instruction on the part of the residents of Ripon and vicinity, who have no time or desire to take any of the regular courses, or to take studies in the College, the following arrangements may be made: Pupils will be received from their homes, who shall simply report to the teacher for instruction at appointed hours, and have no further connection with the college. Tuition will be the same as for the other students of the School of Music with the exception of the incidental fee from which they shall be exempt.

Musical activities are planned which will be of interest and profit. The School of Music will be made the center of all musical life. Everything of real value pertaining to the subject of musical education and advancement will be considered and encouraged by the Director. The hearty co-operation of all who are interested in the best in music is asked that the result may be one which will not only benefit the School of Music and the College but will add an influence for good to the life of the community.

TUITION AND EXPENSES

In the matter of expenses, a School of Music in a small city like Ripon has great advantages to offer over those in larger cities. The expenses of living are less for both teacher and pupil. The best instruction can be given at prices which could not be afforded in a larger place. The cost of board and room is very reasonable as compared with prices in many places.

A schedule of expenses is given below.

Tuition, per semester, payable in advance, two lessons per week.

Private half-hour lessons:

Piano	\$35.00
Pipe Organ	40.00
Violin	35.00
Voice	35.00

Classes in Theory, Musical Appreciation and History, Choral work.

Course A is open to all students free of charge.

Course B. This class is open to students of the College, School of Music and also to citizens of Ripon who enjoy the study of the Standard Cantatas, Masses or Oratorios. A small fee will be charged for this course.

Course D	7.50
Course E	10.00
Course F	10.00
Methods of Teaching Public School Music, in class....	5.00
Use of Piano for Practice,	
One hour a day, per semester	4.50
Two hours a day, per semester	7.50
Additional hours, each, per semester	1.50
Use of the Church organ, for practice, per hour.....	.25
Use of the pedal organ in the chapel for practice, per hr.	.25
Incidental fee per semester	4.00

The incidental fee gives the student the privilege of taking without further charge one of the required college studies.

A fee of \$1.00 for Artists' recitals is charged each music student. This fee covers the price of tickets to all recitals and concerts of the School of Music, except the Oratorio Concerts.

The orchestra of the School of Music will hold regular rehearsals every week. Membership in this orchestra is open to students of the School of Music and College or citizens of Ripon for the fee of \$1.50 per semester. This is a fine opportunity for those who play orchestral instruments.

Rooms may be rented in the dormitories for from \$18.00 to \$24.00 per semester. Board can be obtained at the Commons for \$2.75 per week. Other boarding places can be found whose prices are reasonable. All bills for tuition must be paid at the beginning of the semester or special arrangements made with the Director.

This must be done and the name registered before lessons can be assigned. No deduction will be made for absence from lessons except in cases of protracted illness, when the loss will be shared equally by the School of Music and the student on the written order of the Director. All non-resident students of the School of Music are subject to the regulations of the College.

MISCELLANEOUS ITEMS.

No prices will be made by the lesson or for anytime less than a half semester.

Pupils from out of town may arrange for an hour (private) lesson once a week instead of half hours twice a week.

Pianos for practice can be rented at the School of Music or in the town.

No student of the School of Music will be allowed to take

a musical part in any public exercise without permission from his teacher.

Semesters of the School of Music commence with those of the College and its holidays are the same as those observed by the College.

All persons desiring musical instruction are encouraged in every possible way; graduates and others who have been students of Ripon School of Music will be recommended to fill suitable positions whenever it can be conscientiously done.

Further announcements concerning teachers for the violin, piano and theory will be made at a later time, and adequate provision will be made to meet the demands in these departments.

ACADEMIC DISTINCTIONS IN 1908-9.

FINAL HONORS.

BERNICE GIBSON, A. B., Highest Honors

Class of 1909

Highest Honors

DENA LUCINDA KNOP, A. B.

JEANETTE LAMB, A. B.

EDNA ROSINA MURRAY, A. B.

OTTO JULIUS ZOBEL, A. B.

Honors

FLORENCE FRANCES SANFORD, A. B.

Class of 1910

WILLIAM JACOBS COTTON

CLINTON VIRGIL REED

Honors

HOWARD WARREN ANDERSON

ARTHUR FLOYD COOK

JAMES EUGENE DUNLAP

ERNA IDA ZOBEL

Class of 1911

ROBERT NEWCOMB GIBSON

HELEN HAZEL GOODRICH

WILLIAM FREDERICK MEGGERS

MARY BUCKLEY TAINTOR

RUTH WINCHESTER

Honors

RUTH FRANCES GOWER

GEORGE LUCAS

CORA MAUDA MANATON

Class of 1912

LATIMER JOHNS

ELLIS LLEWELLYN KRAUSE

LYDIA LEONORE SCHAPER

HAROLD MC LEAN WILKIE

Honors

RUTH OSGOOD

MALCOLM CHESTER PFUNDER

WILLIAM HALVOR TAYLOR

Winners of the James Prizes for Excellence in English Composition

First Prize—MALCOLM CHESTER PFUNDER

Second Prize—HAROLD MC LEAN WILKIE

Winners of the Class of 1891 Prize for Oratory

MORGAN EDWARDS AND FRANK M. NICKODEM.

RIPON COLLEGE

Winner of the Lewis Prize for Biological Notes
HOWELL HUMPHREY.

Winner of the Class of 1896 Prize for Declamation
ARTHUR FLOYD COOK.

Winners of the Starr Prizes in Chemistry
First Prize—ELLIS LLEWELLYN KRAUSE.
Second Prize—MALCOLM CHESTER PFUNDER.

Winner of the Sampson Prize in Chemistry
CLINTON VIRGIL REED.

Winner of the University Scholarship
OTTO JULIUS ZOBEL.

Winner of a Prize Scholarship
JEANETTE LAMB.

Holders of Department Fellowships

In Biology—JOHN NICHOLAS LOSHINSKI.
In Chemistry—WILLIAM JACOBS COTTON.
In English—JOSEPH ELLSWORTH SWETLAND.
In History—JENNIE ETHEL CHITTENDEN.
In Mathematics—HARVEY HERMAN MADER.
In Physics—RAYMOND LESTER WEGEL.

DEGREES CONFERRED JUNE 1909.

DOCTOR OF DIVINITY.

Hervey Gorham PillsburyRipon

MASTER OF ARTS.

Earl Leslie King, A. B., Ripon 1908.....Belgaum, India
Leonard George Schneller, A. B., Ripon 1908.....Wausau

BACHELOR OF ARTS.

Albert Edward BrokerLindsey
John N. DavisRandolph
Pearl DavisonRipon
George William FriedrichFond du Lac
Mabel FrostAlmond
Bernice GibsonClintonville
Ellen May GriffithsRosendale
Willard Wellington HodgeWaunakee
Helen HughesRipon
Paula JussenRipon
Dena Lucinda KnopFond du Lac
Jeanette LambRoberts
Harriet Jennie MorseRipon
Edna Rosina MurrayRipon
Sadie Malvina ProutRipon
Walter John ReseburgKiel
Florence Frances SanfordRipon
William Jabez SizerFond du Lac
Carey Kelhan SmithRipon
Ernest George SmithRandolph
Jessie TalbotBerlin
Edmund Adolph YahrPrinceton
Otto Julius ZobelRipon

GRADUATES IN MUSIC.

Edna May OelkeGreen Lake
Dena Lucinda KnopRipon

STUDENTS.

GRADUATE STUDENTS.

Edith Lillian Crowther	Ripon
Florence Isabella Eggleston	Ripon

SENIORS.

Howard Warren Andeison	Eldorado
William George Bate	New London
Emma Louise Brister	Kenosha
Allen George Burg	Calumetville
Walter Glynn Butler	Montello
Jennie Ethel Chittenden	Ripon
Arthur Floyd Cook	Mission Hill, S. D.
William Jacobs Cotton	Elgin, Ill.
Edward Jethro Cragoe	Oakfield
Ira Cleveland Davis	Randolph
Henry Ward Duel	Fond du Lac
James Eugene Dunlap	Ripon
Morgan Edwards	Oshkosh
John Walter Elliott	Boston, Mass.
Ole Forsberg	Prentice
Lloyd Charles French	Franksville
Abby May Higgins	Berlin
Thomas Jackson Hill	Russell, Minn.
Frances Ethlyn Holt	Columbus
Ralph Arna Holvenstot	Princeton
Irmagard Case Jones	Wautoma
John Edward Jones	Cambria
Samuel Theodore Kidder	Ripon
George Lucas Kingsbury	Ripon
Oscar Henry Lichtenberg	Princeton
John Nicholas Loshinski	Princeton
Harvey Herman Mader	Oshkosh
Francis Augustus McGray	Green Lake
Edward Merbach	Ripon
James Edgar Moriarity	Fond du Lac
Helen Mutch	Ripon
Nellie Owens	Randolph
Ira Shelden Parker	Tomahawk
Clinton Virgil Reed	Benton, Ill.
Jesse Marion Reed	Benton, Ill.
Belva Louise Ronne	Eau Claire
Arthur Ernest Schaar	Fond du Lac
Rena Belle Shuart	Pleasant Prairie
Wilbert Leo Smith	Milwaukee
Joseph Ellsworth Swetland	Reedsburg
Raymond Lester Wegel	Fond du Lac
Robert Angus Weir	Portage
Ralph Edward Winchester	Malden, Mass.
Erna Ida Zobel	Ripon

JUNIORS.

Edna May Adams	Green Lake
Carl Peter Bast	Rockfield
Mark Bailey Castelloe	Prescott
Laura Cunningham	Berlin
Royal Edwin Davis	Randolph
Robert Newcomb Gibson	Clintonville
Bruno Julius Glaubitz	Plymouth
Helen Hazel Goodrich	Ripon
Ruth Frances Gower	Chippewa Falls
Emmitt Albert Hassett	Merrill
Mabel Holtoff	Milwaukee
Howell Humphrey	Wild Rose
Robert Humphrey	Wild Rose
Roy Vernon Imrie	Roberts
Haydn Anthony Johns	Randolph
John Richard Jones	Milwaukee
Harvey Earl Larsen	Clintonville
George Henry Lucas	Gettysburg, S. D.
Cora Maude Manaton	Green Bay
William Frederick Meggers	Clintonville
Myrle Ann Miller	Ripon
Ethel Adele Miller	Ripon
Vine Miller	Ripon
Frank George Mooney	Ripon
Avis Mooney	Ripon
Mace McCracken Morse	Princeton
Frank Marcel Nickodem	Princeton
Herman Carl Piehl	Fond du Lac
Guy Arland Russell	Ripon
Mary Buckley Taintor	Ripon
Jessie Thomas	Ripon
Beryl Beatrice Thompson	Grand Rapids
Leonard Newton Thompson	New Richmond
William Francis Werfelman	Brooklyn, N. Y.
Harold Martin White	Oshkosh
Ruth Winchester	Malden, Mass.
Louise Zobel	Ripon

SOPHOMORES

Charles Benjamin Allen	Ft. Atkinson
Charles Bullen Atwood	Milwaukee
Arthur Carroll Barry	Montello
Myrtle Marie Bletsoe	Prescott
Agnes May Brewer	Mineral Point
Horace Abram Bumby	Ripon
Roy Harry Cameron	Oshkosh
Charles Martel Cochrane	Fox Lake
George Lauren Duffie	Ripon
Sigrid Esbensen	Osseo
Jesse Irving Etheridge	Wild Rose
William Lee Finnegan	La Valle
Frances Mary Foote	Ripon
Edna Hayes Frost	Arlington, Mass.
Edward Daniel Fruth	Fond du Lac

RIPON COLLEGE

Harvey William Guetzloe	Kiel
James Elton Imrie	Roberts
Latimer Johns	Randolph
Louisa Johnston	Waupun
Llewellyn Jones	Cambria
Martha Elizabeth Kempton	Markesan
Ellis Llewellyn Krause	Ripon
George Henry Lewis	Brooklyn, N. Y.
Ethel Emma Lyon	Sawyer
Harold Jewett MacNeill	So. Kaukauna
Eileen Agnes Miller	Brandon
Allen Kenneth Murray	Ripon
James Clarence Mutch	Ripon
Ruth Osgood	Lake Mills
Glen Raymond Otis	Appolonia
George Albert Page	Ripon
Chauncey George Peters	New Richmond
Malcolm Chester Pfunder	Greenwood
DeWitt Stewart Pinch	Rosendale
Perry Sheldon Pray	Fond du Lac
George Friday Roberts	Fox Lake
Irene Margaret Runals	Ripon
Lydia Leonore Schaper	Plymouth
Carleton Dexter Sperry	Phillips
Albert Jacob Stelter	Ripon
William Halvor Taylor	Two Rivers
Carl Wesle Utgard	New Richmond
Marvin Roy Watson	Fond du Lac
Harold McLean Wilkie	Fond du Lac
Katherine Edith Williams	Milwaukee
Verle Eynon Williams	Phillips
Robert Vivian Young	Beaver Dam

FRESHMEN.

Clyde Lovell Abercrombie	Omro
Arthur Leslie Bates	Reedsburg
Theodore Hieronymus Bast	Rockfield
Henrietta Belden	Ripon
Samuel Bruce Black	Ft. Atkinson
Harry Edward Boyle	Eau Claire
Harold Renshaw Brayton	Ripon
Helen Irmgard Chittenden	Ripon
Bert Llewellyn Choate	Fond du Lac
Claude Henry Cragoe	Oakfield
Edith Crum	Mineral Point
Wallace Irving Davey	Upper Darby, Penn.
William Henry Davies	Liverpool, England
John Dillon	Kadoka, So. Dak.
Mildred Irene Dockery	Fond du Lac
Genevieve Marion Dopp	Wild Rose
Christine Elizabeth Draeger	Fond du Lac
George Briggs Drummond	Eau Claire
Arthur Albert Dunkel	Phillips
Elizabeth Genevieve Eggleston	Ripon
Rowland Evans	Cambria
Arthur Christian Ewald	West Rosendale

RIPON COLLEGE

Hugh Whitton Ewing	Milwaukee
Lillian Matilda Farnham	Sparta
Louis Burwell Farvour	Ripon
Charles Finnegan	New Richmond
Alice Foster	Plainfield, Ill.
Irma Charlotte Gautschi	Washburn
Edward Augustus Gerber	Durand
Lowell Pierce Goodrich	Ripon
Louis Encking Graf	Ripon
Eleanor May Grant	Watersmeet, Mich.
Mary Jeanette Hamilton	Berlin
Carl Fred Hanske	Kiel
Fred Herrmann	Green Bay
John Milton Hill	Fond du Lac
Eva Ina Holiday	Ripon
Mae Augusta Holiday	Ripon
Donald Williams Holt	Columbus
Benjamin Franklin Howery	Black Earth
Florence Alona Hungerford	Joliet, Ill.
Mary Elizabeth Imrie	Roberts
Jane Blodwen Jones	Milwaukee
Angeline Persis Jones	Milwaukee
Edgar Thomas Jones	Pickett
Louis Kornder	Rockfield
Englebert Albert Kraus	Sun Prairie
Harry Charles Kruger	Rhineland
Anna Luella Larkin	Rush Lake
Harry Wilbert Leaper	Green Bay
John Leatherman	Pardeeville
Frank Bowe Le Fevre	Rosendale
William Hinslea Lyon	Brandon
Ralph Warren Mapps	Wilmington, Ill.
William John McConnell	Green Lake
Elpha Merbach	Ripon
Elizabeth Pelagia Meshynski	Ripon
Thomas Smith Murrish	Cambridge, Ill.
Alma Helen Nohr	Ripon
Viola Lydia Nohr	Ripon
Gordon Francis O'Connor	Fond du Lac
Horace Page Orlady	Durand
Mary Bernice Osborn	Endeavor
Humphrey William Owen	Nevin, No. Wales
Harold Erasmus Rasmussen	Rice Lake
Edgar Phillip Rosenthal	Phillips
Clarence James Rottmann	Ripon
Jeanne Roy	Wausau
Adele Fredericka Schaar	Fond du Lac
Robert Albert Shafer	Rosendale
Alice Elizabeth Smith	Ripon
Granger Wheaton Smith	Ripon
Ray Albert Sorenson	Rhineland
Alfred De Lloyd Sutherland	Fond du Lac
Mary Elvira Weeks	Oshkosh
John Williams	Milwaukee
Owen Williams	Randolph
Florine May Weimer	Coloma, Mich.

RIPON COLLEGE

Edna WinchesterMalden, Mass.
Frank Weston WinterlingFt. Atkinson
Hugh Otis WorthingOakfield

SUB-FRESHMEN.

Irving Harris AllisonJanesville
Glenn Thomas BradfordRock Island, Ill.
Paul Weaver BuffumRock Island, Ill.
Bernice Lucille Davis
Henry Hindle DrummondEau Claire
John Ferdinand EngelOshkosh
William Henry FaginFond du Lac
Mary Francella GilcrestLivermore, Cal.
David GreenwayGreen Lake
Iva HolidayRipon
Samuel Walter IrwinBerlin
Jacob LoehrFond du Lac
Ruth Lillian RottmannRipon
Lester Bernard StirlingBerlin
Frances Emily StuartAugusta, Maine
Frank Carl YahrPrinceton

UNCLASSIFIED.

Frank S. HyerStevens Point
Robert F. MerrittRosendale
George H. NickellBerlin
Orrin L. RobinsonMadison

SCHOOL OF MUSIC.

Mildred BeanWautoma
Mildred BillingsGreen Lake
Harold Renshaw Brayton*Ripon
Ida Emilie BuchholzRipon
Katie ButenhoffMarkesan
Merle CadyRipon
Mrs. Sherman ChafinRipon
Carrie Mae ClarkRipon
Helen CodyRipon
Bernice Lucile Davis*Wild Rose
Louise DillonRipon
Hermann EichsteadtRipon
Nina FaustmanRipon
Frances Mary Foote*Ripon
Orion Williams FordRipon
Alice Evelyn Foster*Plainfield, Ill.
Harriet GibbsRipon
Robert Newcomb Gibson*Clintonville
Mary Francella Gilcrest*Livermore, Cal.
Mrs. Mabel GunderRed Granite
Christina Russell HargraveRipon
Bertha Belle HarrisDenver, Colo.
Abby May Higgins*Berlin
Eva Holiday*Ripon
Iva Holiday*Ripon
Clara Jena HoyerPrinceton

RIPON COLLEGE

Florence Alona Hungerford	*Joliet, Ill.
Alice Hutchinson	Ripon
Mary Elizabeth Imrie	*Roberts
Martha Kaiser	Ripon
Edwin H. Krause	Ripon
Breta Luther	Ripon
Harold Jewett Mac Neill	*South Kaukauna
Norbert Mueller	Princeton
Elpha Merbach	*Ripon
Ella Wipler Nickell	Berlin
Ira Sheldon Parker	*Tomahawk
Alice Eliza Smith	*Ripon
Frances Emily Stuart	*Augusta, Maine
Mabel Tabbert	Brandon
Evelyn Henrietta Teske	Princeton
Louise Thomas	Ripon
Beryl Beatrice Thompson	*Grand Rapids
Jessie Harriet Trotter	*Morris, Ill.
Florine May Weimer	*Coloma, Mich.
Jessy Agnes Wilson	*Ripon
Mrs. Frank Wilson	Ripon
Myrtle Wrangham	Ripon
Alma Zobel	Ripon
Erna Ida Zobel	*Ripon

*Also doing work in the college courses.

SUMMARY.

Graduates	2
College—	
Seniors	44
Juniors	37
Sophomores	47
Freshmen	81
Unclassified	4
	<hr/>
	215
Sub-freshmen	16
Music Students	50
	<hr/>
	281
Deducting names enumerated twice	23
	<hr/>
	258

SUMMARY BY STATES.

Wisconsin	228
Illinois	10
Massachusetts	5
Michigan	3
South Dakota	3
New York	2
California	1
Colorado	1
Maine	1
Minnesota	1
Pennsylvania	1
Foreign Countries	2
	<hr/>
Total	258

ALUMNI ASSOCIATIONS.

SOCIETY OF ALUMNI.

Founded in 1873.

George M. Steele, M. D., 1869, Oshkosh	President
Carrie Z Morse, 1901	Vice President
Samuel R. Scholes, 1905, New Haven, Conn.....	Secretary
Jennie Hall, 1901, Ripon	Treasurer
Edith Chandler, 1904	Trustee
Bert Vandervelde, 1906	Trustee
R. H. Griffith, 1898	Trustee

NORTHWEST ASSOCIATION.

President, Miss Emily Harris	Howard Lake, Minn.
Vice President, Paul J. Thompson.....	Minneapolis, Minn.
Secretary, W. B. Geery	St. Paul, Minn.
Treasurer, D. H. Holbrook.....	Minneapolis, Minn.

RIPON COLLEGE ADVANCEMENT ASSOCIATION.

K. K. Kennan, Wells Building, Milwaukee	President
W. B. Geery, St. Paul National Bank, St. Paul, Minn...	Vice President
Fred W. Rogers, Wells Building, Milwaukee	Secretary
Carroll Atwood, Wells Building, Milwaukee	Treasurer
O. W. Bow, Milwaukee	Director
W. R. Dawes, Chicago	Director
S. M. Pedrick, Ripon	Director
G. C. Duffie, Ripon	Director
H. P. Cody, Ripon	Director

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FORM OF BEQUEST.

Those who intend to devise property to Ripon College are requested to use the following form of bequest:

I give and devise to the Board of Trustees of Ripon College, Ripon, Wisconsin, the sum of
.....dollars, payable, etc.

P. B. HABER PRINTING CO.
FOND DU LAC, WIS



Ripon College Bulletin

Catalogue
1910-1911

Bulletin, March, 1911
Series II, Number 3

RIPON, WISCONSIN

1850-1911

RIPON COLLEGE
BULLETIN

Catalogue
1910-1911



Bulletin, March, 1911

SERIES II, NUMBER 3

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May 16th, 1908, as second-class mail matter,
under act of July 16th, 1904*

1911

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College Calendar

1911.

April	11, Spring Vacation begins 3:15 p. m.....	Tuesday
April	18, Spring Vacation ends 8:00 a. m.....	Tuesday
June	1, Senior Theses due.....	Thursday
June	11, Baccalaureate Sermon	Sunday
June	12, Annual Meeting of the Board of Trustees.....	Monday
June	13, Annual Meeting of the Alumni.....	Tuesday
June	14, Forty-fifth Annual Commencement.....	Wednesday
September	12, Registration for the First Semester.....	Tuesday
September	13, Lectures and Recitations begin.....	Wednesday
November	29, Thanksgiving Recess begins at noon.....	Wednesday
December	4, Thanksgiving Recess closes at noon.....	Monday
December	22, Christmas Vacation begins at 3:15 p. m.....	Friday

1912.

January	4, Christmas Vacation ends 8:00 a. m.....	Thursday
January	17, Registration for Second Semester.....	Wednesday
January	30, First Semester ends.....	Tuesday
February	1, Second Semester begins.....	Thursday
February	11, Day of Prayer for Colleges.....	Sunday
April	3, Spring Vacation begins at noon.....	Wednesday
April	11, Spring Vacation ends 8:00 a. m.....	Thursday
June	9, Baccalaureate Sermon	Sunday
June	10, Annual Meeting of the Board of Trustees.....	Monday
June	11, Annual Meeting of the Alumni.....	Tuesday
June	12, Forty-sixth Annual Commencement.....	Wednesday
September	10, Registration for the First Semester.....	Tuesday
September	11, Lectures and Recitations begin.....	Wednesday

Board of Trustees

OFFICERS.

SILAS EVANS, President of the College, ex-officio President.

ALBERT G. FARR, Vice-President.

SAMUEL M. PEDRICK, Secretary.

WILLIAM R. DAWES, Treasurer.

HONORARY MEMBERS.

O. J. CLARK, Retired Merchant.....Ripon

GEO. L. FIELD, President First National Bank.....Ripon

TERM EXPIRES 1911.

WILLIAM J. STARR, Lumberman and Manufacturer....Eau Claire

SAMUEL M. PEDRICK, Attorney-at-Law.....Ripon

F. J. LAMB, Attorney-at-Law.....Madison

A. E. THOMPSON, Attorney-at-Law.....Oshkosh

FRED W. ROGERS, Mortgages, Loans and Insurance....Milwaukee

REV. L. H. KELLER, Pastor Congregational Church..Fond du Lac

TERM EXPIRES 1912.

O. H. INGRAM, Lumberman and Banker.....Eau Claire

FREDERICK W. UPHAM, President of Board of Review, Cook
County, Ill., of Upham & Agler, of Wisconsin Oak Lumber
Company, and of City Fuel Company.....Chicago, Ill.

W. H. HATTON, Lumberman and Manufacturer.....New London

ALBERT G. FARR, of N. W. Harris & Company, Bankers, New
York and Boston, and Vice-President of the Harris Trust and
Savings Bank, Chicago.....Chicago, Ill.

D. D. SUTHERLAND, Attorney-at-Law.....Fond du Lac

WM. R. DAWES, Cashier Central Trust Company of Illinois,
Chicago, Ill.

TERM EXPIRES 1913.

JOHN W. WRIGHT, President Ripon Knitting Works.....Ripon

FREDERICK SPRATT, Cashier First National Bank.....Ripon

FRANK K. SANDERS, Ph. D., D.D., President Washburn Col-
lege.....Topeka, Kans.

GEORGE M. PAINE, President Paine Lumber Company...Oshkosh

O. E. H. ZOBEL, Retired Merchant.....Ripon

JAMES L. STONE, Cashier German National Bank.....Ripon

STANDING COMMITTEES.

EXECUTIVE COMMITTEE—Messrs. Pedrick, Farr, Zobel, Stone, Wright, Spratt, and Dawes.

COMMITTEE ON INSTRUCTIONS—Messrs. Dawes, Farr, Sanders, Starr, and Stone.

COMMITTEE ON GROUNDS AND BUILDINGS—Messrs. Farr, Zobel, and Thompson.

AUDITING COMMITTEE—Messrs. Hatton and Sutherland.

COMMITTEE ON INVESTMENTS—Messrs. Dawes, Pedrick, Spratt, and Wright.

COMMITTEE ON HONORARY DEGREES—Messrs. Ingram, and Keller.

SPECIAL COMMITTEE ON FINANCE AND ENDOWMENT—Messrs. Ingram, Farr, Dawes, Starr, and Upham.

The President of the College is, ex-officio, member of all committees.

Officers of Instruction

- SILAS EVANS, A. M.....309 Seward St.
 A. B., Ripon College, 1898. A. M., Princeton University, 1900;
 B. D., Princeton Seminary, 1901. Professor of Philosophy,
 Hastings College, 1901-03. Professor of Philosophy and
 Pastor of the College Church, Park College, 1903-09. Profes-
 sor of Hebrew Literature, University of Wisconsin, 1909-10.
 Ripon College, 1910.
- FRANK MORTON ERICKSON, A. M.....529 Woodside Ave.
 Dean and Wilcox Professor of Classics.
 A. B., Wabash College, 1892. A. M., University of Chicago,
 1895. Student of Archaeology, Athens, Greece, 1900. Teacher
 of Greek and Latin, Highland University, 1892-94. Member
 Graduate School, Harvard University, 1906-7. Ripon College,
 1895.
- CHARLES HENRY CHANDLER, A. M.....Smithville, N. H.
 Professor of Mathematics, Emeritus.
 A. B., Dartmouth College, 1868; A. M., Dartmouth College,
 1871. Teacher of Science at Kimball Union Academy,
 Meriden, N. H., 1868-69. Principal of St. Johnsbury (Vt.)
 Academy, 1869-71. Professor of Mathematics and Physics,
 Antioch College, 1871-81. Ripon College, 1881-1906. Profes-
 sor Emeritus, on the Carnegie Foundation.
- MARY CORINTHIA HARWOOD, A. M.*121 Thorn St.
 Dean of Women and Professor of French and German.
 B. L., Lawrence University, 1888; A. M., Lawrence University.
 Student in France and Germany, 1891-93, 1901-2, 1904.
 Assistant Principal, Traer (Ia.) High School, 1888-90. In-
 structor in French and German, Grafton Hall, Fond du Lac,
 Wis., 1893-94. Student in France, 1907. Ripon College, 1895.
- OLIVER JONES MARSTON, A. M.....116 Scott St.
 Professor of History and Political Economy.
 A. B., Greer College, 1898; A. M., Greer College, 1899. Grad-
 uate Student, Johns Hopkins University, 1898-99. Graduate
 Student, University of Wisconsin, 1899-1902. Instructor in
 History, Ripon College, 1902-3. Ripon College, 1903.
- JESSE FOX TAINTOR, A. B.....616 Ransom St.
 Professor of English Literature.
 A. B., Ripon College, 1873. Andover Theological Seminary,
 1875-78. Pastorates in Iowa, 1878-83; Rochester, Minn.,
 1886-1903. Graduate Student Chicago University, 1903, 1905.
 Ripon College, 1905.

* On leave of absence, 1910-11.

- WILLIAM HARLEY BARBER, B. S., A. M.....120 Thorn St.
 Professor of Physics.
 B. S., University of Wisconsin, 1901; A. M., University of Wisconsin, 1909. Assistant Principal Ripon High School, 1901-4; Principal Ripon High School, 1904-5. United States Department of Commerce and Labor, Bureau of Standards, Washington, D. C., 1905-6. Ripon College, 1906.
- ALBERT FRANKLIN GILMAN, A. M.....406 Thorn St.
 Professor of Chemistry.
 S. B., Amherst College, 1897; A. M., Amherst College, 1901. Teacher of Science, Farmington, Me., 1897-98. Professor of Science, Dow Academy, Franconia, N. H., 1898-99. Professor of Chemistry and Physics, Maryville College, 1900-6. Graduate Student, Harvard University, 1903; Chicago University, 1905-6. Ripon College, 1906.
- WILLIAM JAMES MUTCH, Ph. D.....719 Watson St.
 Professor of Philosophy and Education.
 A. B., University of Wisconsin, 1882. B. D., Yale Divinity School, 1885. Ph. D., Yale University, 1894. Lecturer in Pedagogy, Yale Divinity School, 1900-2. Pastor of Howard Avenue Congregational Church, New Haven, Conn., 1885-1907. Ripon College, 1907.
- HOWARD FRANK SHURTLEFF, A. M.....Blossom St.
 Professor of English Composition and Rhetoric.
 A. B., Harvard, 1905; A. M., Harvard, 1907. Ripon College, 1907.
- GEORGE ADDISON TALBERT, M. S.....122 Watertown St.
 Professor of Biology.
 B. S., Ohio Wesleyan University, 1888; M. S., Ohio Wesleyan University, 1891. Graduate Student, Johns Hopkins University, 1888-89. Berlin University, 1898-99. University of Chicago, 1899-00. Woods Hole Marine Laboratory, summers of 1893-94-95, and Leland Stanford Marine Laboratory, summer of 1897. Teacher of Biology, 1889-1902. Stevens Point Normal School, 1902-9. Ripon College, 1908.
- JOHN MERRILL BRIDGHAM, A. M.....719 Watson St.
 Professor of Classics.
 A. B., Bowdoin College, 1904. A. M., Dartmouth College, 1905. Instructor in Latin and Greek at Groton School, 1905-7. Graduate Student, Chicago University, 1907-8. Instructor in Classics and Ancient History, Bowdoin College, 1908-9. Ripon College, 1909.
- MARIE BAKER NICKELL, Ph. M.....Bartlett Cottage
 Associate Professor of History.
 Ph. B., University of Chicago, 1901; Ph. M., University of Chicago, 1906. Instructor in History, Carroll College, 1901-1903. Instructor in History, Milwaukee-Downer College, 1906-1908. Ripon College, 1909.

ELIZABETH BATTLE BINTLIFF, A. M.....234 Elm St.

Professor of Music and Director of the School of Music.

Student, Oberlin Conservatory of Music. Organ Pupil, Fencilon B. Rice and Clarence Eddy. Piano Pupil, George W. Steel and William H. Sherwood. Theory Pupil, George W. Chadwick and Frederic Grant Gleason. Studios in Janesville, Wis., and Chicago, Ill. Organist, St. Paul's Episcopal Church, Milwaukee, and Leavitt Street Congregational Church, Chicago, Ill. Professor of Music and Director of Conservatory of Music, Olivet College, 1893-1909. A. M., Olivet College, 1902. Ripon College, 1909.

EMMA GERTRUDE SIMMONS, A. M.....Bartlett Cottage

Associate Professor of French and German.

A. B., University of Missouri, 1905. A. M., University of Wisconsin, 1908. Teaching Fellow, University of Wisconsin, 1906-1908. Student at the University of Paris, 1908-1909. Ripon College, 1909.

TITUS EUGENE MERGENDAHL, B. S.....122 Watertown St.

Associate Professor in Mathematics.

B. S., Tufts College, 1907; Instructor in Mathematics, Tufts College, 1906-7. Instructor in Mathematics, Ripon College, 1907-10; Associate Professor of Mathematics, Ripon College, 1910.

ROBERT GRIFFIN SHERWOOD, A. M.....511 Woodside Ave.

Associate Professor of Mathematics.

A. B., Ripon College, 1908. A. M., University of Wisconsin, 1909. Ripon College, 1909.

EVA FLOY DAVIS, A. B.....609 Newbury St.

Instructor in Latin.

A. B., Ripon College, 1904. Teacher of Latin and German in High School at Union Grove, Wis., 1905. West Green Bay High School, 1905-7. Ripon College, February 1, 1908.

LOLA ZOBEL, A. B.....Blossom St.

Instructor in German.

A. B., Ripon College, 1908.

BURRELL OTTO RAULSTON, A. B.....Blossom St.

Instructor in Chemistry.

A. B., Maryville College, 1909. Graduate Student, University of Chicago, Summer Quarter, 1909. Ripon College, 1909.

- HARLEM EUGENE DENSFORD, A. M.....719 Watson St.
Acting Professor of English Composition and Rhetoric.*
A. B., Indiana University, 1907. A. M., Indiana University,
1910. Graduate Student Harvard University, 1910. Ripon
College, 1911.
- ESTELLA HALL READE.....430 Congress St.
Instructor in Vocal Music.
Pupil of William H. Stockbridge, Portland, Me.; of Madame
Perkins, Baltimore, Md.; of Dr. Edward S. Kimball, Washing-
ton, D. C.; of Benjamin F. Wood, Boston; of Mary Kimball,
Washington, D. C.; and of Herman Kotschmar, Portland, Me.
Contralto Soloist in Choirs in Lewiston, Portland, Baltimore,
Washington, Joliet, Ill., and Olivet, Mich. Head of Vocal
Department and Public School Music Methods, Conservatory
of Music, Olivet College, 1897-1909. Ripon School of Music,
1909.
- EWALD ORTWIN STIEHM, A. B.....Watson St.
Director of Athletics.
A. B., University of Wisconsin, 1909. Teacher Fort Atkinson
High School, 1909. Ripon College, 1910.
- WILLIAM FREDERICK MEGGERS, A. B.....Smith Hall.
Assistant in Physics.
A. B., Ripon College, 1910.
- JOHN NICHOLAS LOSHINSKI, A. B.....401 Thorn St.
Assistant in Biology.
A. B., Ripon College, 1910. Graduate Student, University of
Wisconsin, summer of 1910. Ripon College, 1910.
- CORA LAVERNE HOPPOUGH.....234 Elm St.
Teacher of Piano, Theory, Musical History and Appreciation.
Graduate, Conservatory of Music, Olivet College, 1900.
Teacher of Piano, Greenville, Mich., 1901-2. Student of Piano
with Emil Liebling, Chicago, 1902-3. Teacher of Piano and
Theory, Conservatory of Music, Olivet College, 1903-1909.
Student of Piano and Advanced Theory, Teacher of Ear-
training, Conservatory of Music, Oberlin, 1909-10. Ripon,
School of Music, 1910.
- LOUISA STANTON THOMAS.....120 E. Thorn St.
Teacher of Violin.
Student of Violin, with Mrs. B. F. Anderson; of Violin and
Theory, with Theodore Meier, 1907-9; of Violin, with
W. L. Jaffé, Milwaukee, 1909-10. School of Music, Ripon, 1910.

* After February first.

COMMITTEES OF THE FACULTY.

- CHAPEL—President Evans, Professors Mutch, Gilman, and Miss Davis.
- DORMITORIES AND COMMONS—Professors Simmons, Harwood and Barber.
- PUBLICATION—Professors Erickson, Shurtleff, Taintor, and Mr. Raulston.
- SOCIAL LIFE AND STUDENT SOCIETIES—Miss Zobel, Professors Gilman, Harwood and Bridgham, and Mrs. Reade.
- ALUMNI AND COMMENCEMENT—Professors Taintor, Bintliff, Sherwood, and Miss Davis.
- AID AND RECOMMENDATIONS—Professors Gilman, Nickell, and Mutch.
- FORENSICS—Professors Marston, Shurtleff and Bridgham.
- LIBRARY—Professors Talbert, Marston, and Miss Hays.
- REGISTRATION—Professor Barber, Dean Erickson, Professor Mergendahl.
- JOINT COMMITTEE ON ATHLETICS—For the Faculty: Dean Erickson, E. O. Stiehm, Director of Athletics. For the Trustees: J. W. Wright. For the Students: Carl W. Utgard, James Mutch.

CLASS OFFICERS.

- FRESHMAN CLASS—The Dean of the College, ex-officio.
- SOPHOMORE CLASS—Professor Gilman.
- JUNIOR CLASS—Professor Mutch.
- SENIOR CLASS—Professor Barber.

DEPARTMENT FELLOWS, 1910-11.

- IN BIOLOGY—Howell Humphrey.
- IN CHEMISTRY—Frank Mooney.
- IN ENGLISH LITERATURE—Laura Cunningham.
- IN ENGLISH COMPOSITION—Jessie Thomas.
- IN HISTORY—Haydn Anthony Johns.
- IN PHILOSOPHY—Carl Peter Bast.
- IN PHYSICS—William Halvor Taylor.

OFFICERS OF ADMINISTRATION.

SILAS EVANS	President
FRANK MORTON ERICKSON.....	Dean
MARY CORINTHIA HARWOOD.....	Dean of Women
WILLIAM HARLEY BARBER.....	Registrar
EMMA GERTRUDE SIMMONS.....	Head of Bartlett Cottage
FLORENCE CATHERINE HAYS.....	Librarian
TITUS EUGENE MERGENDAHL.....	Secretary of the Faculty
PEARL DAVISON	Cashier
.....	Secretary to the President
ALICE MABEL BEARDSLEY.....	Assistant Librarian
HERMAN GATZKE.....	Superintendent of Grounds and Buildings

Ripon College

The institution out of which the present Ripon College grew, was incorporated January 29, 1851. Brockway College, as the first foundation was called in honor of one of its benefactors, was a development from the "Lyceum of Ripon," which was founded November 23, 1850. The original incorporators of Brockway College were David P. Mapes, Ezra L. Northrup, Alvin E. Bovay, Warren Chase, John S. Horner, Jehdeiah Bowen, Almon Osborn, Asa Kinney, Edwin Lockwood, Alexander B. Beardsley, William S. Brockway, Edward L. Runals and William Starr.

From the time of its opening until 1855, the school was under the management of Rev. J. W. Walcott. No college classes were formed, and no college work was attempted, until the autumn of 1863. On February 21, 1857, Mr. Walcott deeded the college property to the Board of Trustees, they securing him for his claim of six thousand nine hundred and seventy-seven dollars by a mortgage on the entire realty. The deed recognized the right of the Winnebago Convention to nominate candidates to fill vacancies in the board. The campus conveyed in this exchange embraced about nine acres, which has since been considerably increased. The dormitory building, contemplated in 1855, was not ready for occupancy until the latter part of the autumn of 1858. The years from 1858 to 1862 witnessed serious struggles in the life of the young College. For a time during this period the buildings and grounds of the College were used for the purposes of the war, and many of its faculty and students saw actual service in the Union armies.

On April 23, 1863, the Rev. William E. Merriman, a graduate of Williams College and of Union Theological Seminary, a popular preacher and an accomplished scholar, then pastor of the Presbyterian Church at Green Bay, was elected to the presidency of the College. The appointment of Mr. Merriman was an epoch in the history of the institution. The obstacles which confronted him were extraordinary, but he exhibited at once a power to overcome them, no less extraordinary. His Christian consecration and his enthusiasm were complete, not permitting him to miss any opportunity to do effective work for the College, or for intellectual and spiritual uplift among students and people. Although the institution had at this time no endowment, only one professor besides the President, and

hardly half a dozen students of college grade, yet it took its place of moral and intellectual leadership. Under the direction of the new President, the College grew rapidly and substantially, the number of students more than doubled, new buildings were added, and the College admitted to membership in the Society for the Promotion of Collegiate and Theological Education in the West. This last accomplishment was of far-reaching consequence, freeing the institution from obligations to the Winnebago Convention, and placing it on a much firmer financial basis. In addition to this, a large sum was added to the endowment; but, above all, the College, through this action, became recognized in the fraternity of colleges. In 1874, Dr. Merriman was given a leave of absence on account of ill health, and his active work as head of the College practically ended with this year. In this administration, remarkable in every sense, much was accomplished for the College in a material way; but more important than this, was the fact that under the guidance of this strong and simple man, the spirit of the institution was established.

The administration of Edward Huntington Merrell began in 1876, and continued until 1891. Doctor Merrell's connection with the College continued until his death, in 1909. From 1891 until 1906 he was the Professor of Philosophy. In 1906 he was made Professor Emeritus, on the Carnegie Foundation. Rufus Cushman Flagg, D. D., was President from 1892 to 1900. His successor in 1901 was Richard Cecil Hughes, D. D., who served the College until 1909. In September, 1910, Silas Evans, a graduate of the College in the class of 1898, was elected President.

From the beginning, the College has been under the control of a Board of Trustees, who have uniformly conducted its affairs wisely, economically and with foresight. From 1855 to 1864 the Board was served by four different secretaries: Mr. J. W. Walcott, Mr. Hiram Freeman, Mr. C. C. Bayley and Mr. J. C. Catlin. In 1864 Storrs Hall, M. D., was made Secretary, and served faithfully and efficiently until 1899. At that date Mr. Samuel M. Pedrick was elected to the office, which he still holds.

The Board has been equally fortunate in its Treasurers. Mr. Jehdeiah Bowen was twice Treasurer, between the years 1851 and 1861, and again from 1865 to 1882. The Treasurer from 1861 to 1865 was Mr. Charles F. Hammond. Mr. A. P. Harwood was elected in 1882, and served until 1883. Mr. J. A. Chamberlain served from 1883-84. Mr. Harwood was again elected in 1884, and served until 1886. In that year Mr. Joseph

Scribner was made Treasurer, and held the office until 1899, when Mr. S. M. Pedrick was elected. Mr. Pedrick was followed in 1905 by Mr. George L. Field, President of the First National Bank of Ripon. From 1876 to 1886 Mr. George C. Duffie as Assistant Treasurer had the care of the books, and the responsibilities of Treasurer fell largely upon him. From 1905 to 1907 Mr. Frederick Spratt as Assistant Treasurer gave constant attention to the accounts and to the financial affairs of the College. Mr. Albert G. Farr, Vice-President of The Harris Trust and Savings Bank, Chicago, was elected Treasurer in 1907, and continued in that office until June, 1910, when the present Treasurer, Mr. William R. Dawes, of Chicago, Cashier of The Central Trust Company of Illinois, was elected.

Requirements for Admission

GENERAL REQUIREMENTS.

A candidate for admission who offers credentials from a recognized school showing that he has completed the requirements for entrance as given below, will be admitted provisionally to the freshman class. Those who do not offer credentials, will be examined upon the work required for entrance. Whether a student enters by certificate or by examination, he is not given full standing until he has shown, by doing satisfactory work, that he is able to pursue a college course with profit.

All candidates for admission to the College must present satisfactory evidence of good moral character. Those coming from other colleges must present letters of honorable dismissal.

Entrance requirements are expressed in terms of units. A unit may be defined as an amount of work equivalent to a year's course of study of standard high school grade. It is understood that the standard high school course contains five recitation periods a week. Fifteen such units are required for admission to the freshman class. Of these fifteen units eight are prescribed; seven are, within certain limits, elective.

The following eight units are required of all:

English, 2 units; Mathematics, 2 units; Latin, German or French, 2 units; History, 1 unit; Science, 1 unit.

In addition to these requirements seven units must be offered from the following elective subjects:

English, 1 or 2 units; Mathematics, $\frac{1}{2}$, 1, $1\frac{1}{2}$ or 2 units; Foreign Languages, 1, 2, 3 or 4 units; History, 1, 2, or 3 units; Civics, $\frac{1}{2}$ or 1 unit; Economics, and Commercial Geography combined, 1 unit; separately, $\frac{1}{2}$ unit each; Science, 1, 2 or 3 units; Manual Training, 1 unit.

Not more than four of the required fifteen units will be accepted in any one subject. No foreign language course of less than two units will be accepted from students presenting only one foreign language.

Admission Without Foreign Language.—Students who offer fifteen units for entrance may be admitted without foreign language, but the language requirements must be met wholly or in part during the freshman year. This will ordinarily require extra work to the extent of four hours a week for one year, which will not be credited as part of the number of unit hours required for graduation.

DETAILS OF SUBJECTS.

English. 2, 3 or 4 units. All candidates for admission to the College must present two units in English, one of which should consist of composition, and one of the reading and study of English classics. The two units required in English correspond in amount and character to the work of the first two years of the standard high school course. It is recommended that at least three units be presented in English, the third unit to consist of additional work in composition, and either (1) of the reading and study of representative selections from English and American Literature or (2) detailed study of a few typical examples of the novel, the drama, the lyric, and the essay.

Preparation in English should have two main objects: (1) command of correct and clear English, spoken and written; (2) power to read with intelligence and appreciation. To secure the first end, training in grammar and in the simpler principles of rhetoric, and the writing of frequent compositions, are essential. The candidate must be able to spell, capitalize and punctuate with accuracy. He must show a practical knowledge of the essentials of English grammar, of the construction of the sentence, and of the simpler principles of paragraph division and structure. To secure the second end, the candidate is required to read the works prescribed by the Commission of New England Colleges and Secondary Schools. The student should read the books with a view to understanding and enjoying them, and should secure a reasonable degree of familiarity with their substance.

Greek. 2 units. Xenophon's *Anabasis*, four books; Homer's *Iliad*, three books, or an equivalent amount of the *Odyssey*; Greek composition.

Latin. 2 or 4 units. If two units, they must be as follows: Caesar, four books, or Caesar, two books, and an equivalent to two books in selections from Caesar or Nepos. If two units additional are presented, they must include: Elementary Latin, with the addition of six orations of Cicero (selections from the letters may be substituted for two orations); Virgil, six books; Composition, preferably in connection with Caesar and Cicero.

German. 2, 3 or 4 units. German may be offered for entrance to the amount of two, three or four units, requiring respectively two, three or four years of high school study. A candidate who presents elementary German (2 units) should be able to pronounce and to translate at sight, into idiomatic

English, simple German prose, to put easy English sentences into German, and to carry on a simple conversation in German, based upon the texts set for translation. If three or four units of German are offered, a proportionate amount must be presented.

French. 2, 3 or 4 units. French may be offered for entrance to the amount of two, three or four units, requiring respectively two, three or four years of high school study. A candidate who presents elementary French (2 units) should have a thorough knowledge of the grammatical forms of the language, and possess a sufficient vocabulary to read simple French with ease. If three or four units of French are offered, a proportionate amount must have been completed.

History. 1, 2, 3 or 4 units. May be presented from the following subjects:

Ancient History to the year 800 A. D., 1 unit.

Mediaeval History, 1 unit.

English History, 1 unit.

United States History, 1 unit.

In Civics, Commercial Law, Economics, and Commercial Geography, a half unit may be offered for each subject, provided it represents a substantial course.

Mathematics. The two required units in Mathematics are: Elementary Algebra, one unit; Geometry, plane and solid, one unit. Additional credit to the amount of one-half unit will be given for Advanced Algebra.

The unit of Elementary Algebra required of all students should include the following subjects: Fundamental operations, equations of the first degree with one unknown number, simultaneous equations of the first degree, factors, highest common factor, lowest common multiple, quadratic equations, simultaneous equations above the first degree, elementary theory of indices, and radicals.

In Geometry the requirements should indicate a combined course of one year in plane and solid geometry, and should consist of a sufficient number of propositions in solid Geometry.

If an additional half year of algebra is presented by the candidate for admission, the work should cover the following subjects: Simultaneous quadratic equations; ratio, proportion and variation, including graphical representation of simple relations between two variables; binomial theorem for positive integral exponents; logarithms, including use of tables in simple numerical work.

Physics. 1 unit. A year's course, including continuous and systematic laboratory practice. Any standard text-book may be used.

Chemistry. 1 unit. A year's course of descriptive chemistry, including both class-room and laboratory work. The student should keep a careful record of the experiments performed.

Botany. 1 unit. The course should cover a study of the life histories of types from the main groups of plants, and should include also a series of simple experiments.

One unit will be accepted in Physical Geography and in Zoology, provided it represents thorough systematic work of high school grade. A half unit also may be offered in Physiology.

ADMISSION BY CERTIFICATE.

On the recommendation of the principal of the high school, with his certificate showing that the student has successfully completed the courses required for entrance, graduates of any Wisconsin high school, on the accredited list, will be admitted to the freshman class without examination.

The list of accredited schools from which students will be admitted to the College on the certificate of the principal of the school, is the same as that of the University of Wisconsin. The regulations concerning the accredited schools also are the same as those in force at the University. Further information concerning these schools will be furnished on application.

The certificates as to the work done in the high school should be made out on blanks which will be furnished on application, by the Registrar of the College. They should be forwarded to the Registrar, before the opening of the college year.

Certificates issued by the state normal schools, or by recognized academies of the state, will be accepted for the entrance requirements in the subjects covered by such certificates.

NORMAL SCHOOL GRADUATES.

Graduates from the state normal schools who were graduated previously from a four-year high school course admitting to the college, will be given the degree of Bachelor of Arts on the completion of the major subjects as described on page 20, and of those required subjects for which no equivalent has been taken at the normal school. The time required to

complete this course will depend somewhat on the subjects taken previously. By taking some extra work, it may, in most cases, be completed in two years of residence.

RIPON COLLEGE AND THE STATE UNIVERSITY.

Ripon College and the University of Wisconsin have practically the same entrance requirements and the same list of accredited schools. Students who migrate from either institution to the other will be given the rank of sophomores or juniors, if they change at the end of the first or second year of their work. It is not deemed advisable by either institution, for students to migrate at the end of the junior year; but where such cases occur, they will be dealt with on their individual merits.

The following statements from the catalogue of the University will indicate the arrangement between the University and the Wisconsin Colleges: "By arrangement with Beloit College, Lawrence College, Ripon College, Carroll College, and Marquette University, students of these institutions who have satisfactorily completed the work of the sophomore year will be admitted to junior rank in the College of Letters and Science. In case of migration at an earlier period than the end of the sophomore year, proportional credit will be given. Students who complete two years of work at Beloit, Lawrence and Ripon, will be admitted to the College of Engineering of the University of Wisconsin, on the same conditions as students who transfer to that college from the College of Letters and Science of the University of Wisconsin."

Requirements for Graduation.

The requirement for graduation is one hundred and twenty (120) semester hours of credit in college courses and a satisfactory thesis on an approved topic connected with the major subject, or one hundred and twenty-four (124) semester hours of credit without thesis. The unit of measure, a semester hour, is one hour recitation or lecture, or one two-hour laboratory period per week for one semester. A course which meets four hours per week for one semester gives four (4) hours' credit. Regular work is fifteen hours per week.

SELECTION OF STUDIES.

In the selection and arrangement of studies, the student has considerable freedom, but his choice is in part limited by the following general requirements.

Freshman Year.

The regular work of the freshman year is four subjects, each continued through the year. English is required of all, and at least one subject must be chosen from each of the following groups. The fourth subject may be taken from either group.

I.
Latin
Greek
French
German

II.
Mathematics
Chemistry
Biology
History

Sophomore Year.

In the sophomore year any of the subjects open to freshmen may be elected, and any of the required subjects not already completed should be included in the selection. Other electives open to sophomores are the following:

Latin 3-4
Greek 3-4
French 3-4
German 3-4
English Composition 2-3-4
English Literature
Archaeology

Philosophy 1-2
History 1-2
Economics 1-2
Mathematics 3-8
Chemistry 3-4
Biology 1-3-5
Physics 1-2

Junior and Senior Years.

By the time the student has reached the junior year, he is ready to select a subject in which to do advanced, cumulative work. This subject is called the student's major subject, and

must include at least twenty hours' work in one of the following departments: Philosophy, Education, Greek, Latin, French, German, English, History, Economics, Mathematics, Biology, Chemistry or Physics.

Required subjects, or those of an elementary character such as Latin A or German A, will not be counted toward the major subject; and not more than twenty-eight hours of work in any one department, exclusive of the freshman course, will be counted toward a degree.

To secure breadth of training, the courses of study offered by the departments of the College have been arranged in four groups. The major subject will lie in one of these groups. In each of the other three, the student must select a minor or year course of at least eight hours' credit in one department. These minors are in addition to the courses required of all students.

The four groups from which the student selects his major and three minor subjects are as follows:

I.	II.	III.	IV.
Greek	Biology	History	Philosophy
Latin	Chemistry	Economics	Mathematics
German	Physics	Political	
French		Science	
English		Education	
Music			
Archaeology			

The subjects required of all students are the following: English, course 1, and Foreign Language, two courses of one year each. Students who have had less than four years of foreign languages for entrance, will be required to complete an additional year course in the College.

The requirements for graduation may be summed up as follows:

English 1.

Two courses of one year each in foreign language (three courses if less than four units of foreign language were offered for entrance).

A year course in each of four groups of studies and an additional amount of work in one of these four subjects to constitute the major subject.

Free election to make the total of one hundred and twenty hours required for graduation, or one hundred and twenty-four hours without thesis.

HONOR CREDITS.

In addition to the 120-hour credits necessary for graduation, each student must earn at least 31 honor credits, or an average mark in all subjects of C or higher.

Class standings are indicated by letters. A, B, C and D are passing grades. For a grade of A in a given course, the student will receive as many honor credits as there are hour credits in the course, less one; for a grade of B, as many honor credits as hour credits, less two; for a grade of C, as many honor credits as hour credits, less three. For example: A four-hour course in which the student's mark is A, gives three honor credits; if the grade is B, two honor credits; and if C, one honor credit.

As a special adjustment in putting the honor credit system into operation, the class of 1912 will be required to secure 6 honor credits; the class of 1913, 14 honor credits; the class of 1914, 22 honor credits.

GENERAL REGULATION GOVERNING REGISTRATION.

Tuesday September 12 is registration day. The registration office is open from nine till twelve and from one-thirty till five, and all students are expected to register at that time. For registration after this date, or for change of registration, a fee of one dollar is charged. After three weeks of a semester have passed, no change in registration can be made without the consent of the Curriculum Committee, and a study which is dropped without the consent of this Committee is recorded as a failure.

New students will go first to the Dean of the College, who will assign them to faculty advisers. The registration form is made out after consultation with the adviser, and must bear his signature when it is filed with the Registrar. The registration form for succeeding years must be approved by this same faculty adviser, until the student selects his major subject. The professor in charge of this department then becomes his adviser.

THE GROUP SYSTEM.

The group system readily adapts itself to the individual, by permitting a wide latitude in the choice of studies. At the same time, the importance of making a careful choice, under the best advice, cannot be emphasized too strongly. As some

courses are given only on alternate years, and because of possible conflicts in the hours of recitation, the general plan of the student's work for the remainder of the course should be made by the beginning of the sophomore year. Moreover, the course should be planned as a whole with a definite end in view; and, when once planned, the student should not allow himself to be diverted from it for any but the most serious reasons.

The following courses illustrate the working of the group system, and will guide the student in arranging his own work.

PHILOSOPHY.

This is a conservative course for the purpose of classical culture, drawn upon lines approved by the longest experience of American colleges. By a judicious use of the elective privilege, a fair balance can be preserved between the humanistic and the scientific disciplines for the purposes of culture and professional life.

The course serves also as a pre-theological course, when electives are chosen with this in view. It is possible for graduates of good rank to secure one year of advanced credit in leading theological seminaries, upon recommendation of the faculty. This course presupposes at least four language units of entrance credit. It must include at least one year of a laboratory science, and two are recommended.

First Year.

English 1, four hours; Greek A, four hours; Latin 1-2, four hours. One elective.

Second Year.

First semester. Philosophy 1, Method of Nature, four hours; German 1, four hours; English Composition 2, three hours. One elective. Second semester. Greek 8, Ancient Philosophy, three hours; German 2, four hours; English Composition 2, three hours. Elective.

Third Year.

First semester. Philosophy 2, Philosophy of Culture, four hours; Psychology, three hours; History, four hours. Electives. Second semester. Philosophy 4, Logic and Metaphysics, four hours; History, four hours. Electives.

Fourth Year.

First semester. Education 1, Philosophy of Education, four hours. Electives. Second semester. Philosophy 3, Types of Modern Thought, four hours. Electives.

In choosing electives, preference should be given to the following subjects in about the order named:

Science, one required; English, advanced courses; Language, second year in each; Bible; Economics; Education.

LANGUAGE-LITERATURE.

Many combinations of language and literature courses are possible, varying with the special interest of the student, whether it is in the Ancient Classics, French, German or English. One such group, typical of them all, is given below. The course outlined, covers with some completeness the literature, history, and civilization of Europe.

First Year.

English 1 a and b, four hours; Greek or Latin, four hours; French or German, four hours; Science, four hours.

Second Year.

First semester. English Composition or Literature, three hours; Greek or Latin, three hours; French or German, three hours; History 6, four hours; Philosophy 1, four hours. Second semester. English Composition or Literature, three hours; Greek or Latin, three hours; French or German, three hours; History 8, four hours; Archaeology 7, two hours.

Third Year.

First semester. English, three hours; Greek or Latin, or French or German, three hours; Psychology, three hours; Major subject, three to five hours. Elective. Second semester. English, three hours; Greek or Latin, or French or German, three hours; Major subject, three to five hours. Electives.

Fourth Year.

First semester. English, three hours; Greek or Latin, or French or German, three hours; Major subject, three to five hours; Education, four hours; Greek Literature 7, three hours. Second semester. English, three hours; Greek or Latin, or French or German, three hours; Major subject, three to five hours; Education, four hours. Electives.

HISTORY-ECONOMICS.

First Year.

First semester. Ancient or Mediaeval History, four hours; English 1, four hours; Foreign Language, four hours; Mathematics 1, three hours. Second semester. Ancient or Modern History, four hours; English 1, four hours; Foreign Language, four hours; Mathematics 2, three hours.

Second Year.

First semester. Mediaeval or Ancient History, four hours; English, three hours; Foreign Language, three hours; Economics, four hours. Second semester. Modern or Ancient History, four hours; English, three hours; Foreign Language, four hours; Economics as offered, four hours.

Third Year.

First semester. English Political and Constitutional History, four hours; United States History, four hours; Physics 1 five hours; Political Science, four hours. Second semester. English Political and Constitutional History, four hours; United States History as offered, four hours; Science. Elective.

Fourth Year.

First semester. Economics as offered; Advance English Composition; History. Elective. Second semester. Economics as offered; Advance English Composition; History. Elective.

MATHEMATICS-PHYSICS.

The Mathematics-Physics course is arranged to present, not only a thorough and continuous study of mathematics and physics, but also a broad and liberal outline of collegiate work. In this respect the course is well adopted to students who are desirous of becoming teachers in these subjects, or are contemplating graduate work, and also conforms to the needs of those who want the course, wholly as a matter of general training.

First Year.

First semester. Chemistry; German or French; English; Algebra. Second semester. Chemistry; German or French; English; Trigonometry.

Second Year.

First semester. Analytic Geometry; Differential Calculus; Physics; German or French; Advanced English Composition. Second semester. Analytic Geometry; Integral Calculus; Physics; German or French; English Literature.

Third Year.

First semester. Advanced Calculus; Light; Economics or History; Elective: Quantitative Chemistry or Biology. Second semester. Differential Equations; Heat; History or Economics; Elective: Chemistry or Biology.

Fourth Year.

First semester. Mechanics; Physics; Psychology; Electives: Philosophy, Education. Second semester. Mechanics; Physics; Logic and Metaphysics; Education.

TRAINING FOR PROFESSIONAL COURSES

The following courses are arranged to give specific preparation for professional study. It should be noted, however, that each is a well-rounded course of study, and meets the college requirements for the degree of Bachelor of Arts.

PREPARATION FOR TEACHING.

The course outlined for the preparation of teachers is intended to give the broadest and most complete training for high school teaching, consistent with a college course. There are three qualifications about equally essential for a successful teacher, namely: general culture and intelligence, mastery of the subject, and skill in the theory and art of teaching. The course provides for all three of these requirements. Its chief merit lies in the scope and thoroughness of the courses in Education.

No one is recommended as a teacher who has not completed a college course, and earned a bachelor's degree. This course must contain Psychology, and at least one full year of the regular work in Education. It is strongly recommended that all the courses be taken.

The department of Education offers four standard four-hour courses, covering two years, and dealing in a thorough manner with the History and Philosophy of Education, with educative values and the fundamental principles governing method, with the special problems of teaching, management,

and constructive ideals of life. Instruction is given in training young people to study and manage their own mental operations, to use libraries and reference books, and to get the right attitude toward life.

The several departments in Ripon College offer Courses for Teachers of those subjects, in which reviews of the elementary matter are given, with special reference to teaching it in high schools.

Systematic and critical observation of high schools in actual operation is a regular part of each year's work. There is also considerable opportunity for getting valuable experience in the actual work of a teacher, through the appointment of fellows and substitute teachers.

To worthy students who have taken these training courses, assistance is given, during the senior year, that they may secure good positions. The efforts of the faculty in this direction have been very successful. School men, understanding the character of the work done and the method of recommendation, are constantly writing for candidates. While no guarantee can be made, it is safe to say that every student who proves worthy, and desires a position, will secure one.

PREPARATION FOR THEOLOGY.

The College offers all the courses usually taken in preparation for the study of theology. The course outlined under the head of Philosophy, with suitable electives chosen under the direction of the head of that department, meets the approval of most theological seminaries.

PREPARATION FOR LAW.

Students entering the profession of Law, are urged to complete a full four-year course in college. The following course meets the requirements for a bachelor's degree, and at the same time outlines what is believed to be best adapted to meet the needs of law students.

First Year.

First semester. Algebra, three hours; English, four hours; Latin, German, or Spanish, four hours; Mediaeval History, four hours. Second semester. Trigonometry, three hours; English, four hours; Latin, German, or Spanish, four hours; Modern History, four hours.

Second Year.

First semester. English Composition, three hours; Latin, German, or Spanish, three hours; English Political and Constitutional History, four hours; Economics 1, four hours; General Chemistry, four hours. Second semester. Exposition, three hours; Latin, German, or Spanish, three hours; English Political and Constitutional History, four hours; Economics as offered, four hours; Science, four hours.

Third Year.

First semester. Physics, five hours; Latin, German or Spanish, three hours; U. S. History 1, four hours; Economics as offered, six hours. Second semester. Literary History of America, three hours; Latin, German or Spanish, three hours; U. S. History as offered, four hours; Economics as offered, six hours.

Fourth Year.

First semester. Debating, three hours; U. S. History as offered, four hours; Political Science, four hours; Economic Seminar, two hours; Advanced Composition, three hours. Second semester. International Law, four hours; U. S. History as offered, four hours; Economics as offered, six hours; Advanced Composition, three hours.

PREPARATION FOR BUSINESS OR PUBLIC SERVICE.

Students desiring to prepare for a business career, or wishing to enter certain branches of the public service, will find that the requirements for a bachelor's degree permit them to devote to separate study in the departments of History and Economics, nearly the whole of the third and fourth years, and also some time in the first and second years.

The following courses are suggested for such students:

First Year.

First semester. Algebra, three hours; English 1, four hours; German or French, four hours; English Political and Constitutional History, four hours. Second semester. Trigonometry, three hours; English 1, four hours; German or French, four hours; English Political and Constitutional History, four hours.

Second Year.

First semester. German or French, three hours; Science, four hours; English Composition, three hours; Economics 1, four hours; Nineteenth Century History, four hours. Second semester. German or French, three hours; Comparative Anatomy of Vertebrates, four hours; Economics as offered, four hours; U. S. History as offered, four hours; Elective, three hours.

Third Year.

First semester. Physics, five hours; Spanish, four hours; U. S. History as offered, four hours; Economics as offered, six hours. Second semester. International Law, four hours; Spanish, four hours; U. S. History as offered, four hours; Economics as offered, six hours.

Fourth Year.

First semester. U. S. History as offered, four hours; Economic Seminar, two hours; Political Science 1, four hours; Elective, four hours. Second semester. U. S. History as offered, four hours; Economics as offered, six hours; Elective, four hours.

PREPARATION FOR FOREIGN SERVICE.

Students desiring to enter the consular or other foreign service, will find in the departments of Modern Language, Economics, and History, courses which will best prepare them for such work. The requirements for a bachelor's degree permit the student to devote to study in these departments a considerable proportion of his time.

The student is advised to acquire a good reading knowledge of two modern languages, besides English; at least the elements of two sciences; and as special a knowledge of the history and economic conditions of his own country as time will permit. The required reading, as far as possible, will be along the line of the resources, commerce, and government of the United States; trade statistics; commercial and political geography; international, commercial, and maritime law.

The following courses are suggested for such students:

First Year.

First semester. Algebra, three hours; English 1, four hours; French or German, four hours; Mediaeval History, four

hours. Second semester. Trigonometry, three hours; English 1, four hours; French or German, four hours; Modern History, four hours.

Second Year.

First semester. German or French, three hours; Elective, three hours; U. S. History 1, four hours; Nineteenth Century History, four hours; Economics 1, four hours. Second semester. German or French, three hours; Elective, three hours; Science, four hours; Economics as offered, four hours.

Third Year.

First semester. U. S. History as offered, four hours; Economics as offered, six hours; Physics, or other science, four or five hours; German or French, three hours. Second semester. U. S. History as offered, four hours; Economics as offered, six hours; International Law, four hours; German or French, three hours.

Fourth Year.

First semester. U. S. History as offered, four hours; Economics as offered, two hours; Spanish, four hours; Political Science, four hours. Second semester. U. S. History as offered, four hours; Economics as offered, six hours; Spanish, four hours.

PREPARATION FOR MEDICINE.

This course is designed to give a broad education in the principal natural sciences preparatory to the study of medicine.

First Year.

First semester. General Chemistry, four hours; English, four hours; Mathematics, three hours; German or Latin, four hours. Second semester. Qualitative Analysis, four hours; English, four hours; Mathematics, three hours; German or Latin, four hours.

Second Year.

First semester. Biology of Invertebrates, four hours; Quantitative Analysis, four hours; German or Latin, three hours; Electives: History or English. Second semester. Biology of Vertebrates, four hours; Volumetric Analysis, four hours; German or Latin, three hours; Electives: History or English.

Third Year.

First semester. Organic Chemistry, five hours; Histology, four hours; Physics, five hours; Electives: Philosophy, Latin or Greek, French. Second semester. Organic Chemistry; Embryology; Physics, five hours; Electives: Philosophy, Latin or Greek, French.

Fourth Year.

First semester. Physiological Chemistry; Physiology, four hours; Psychology, three hours; Electives: Latin or Greek, French, History. Second semester. Industrial Chemistry; Bacteriology, five hours; Botany, three hours; Electives: Latin or Greek, French, Economics.

PREPARATION FOR ENGINEERING.

The Pre-Engineering Group is intended to meet the needs of those students who wish to secure a thorough-going foundation for advanced study in engineering. It is hoped, therefore, that after graduation most of those who pursue this group of studies will desire to carry on their work at the University of Wisconsin or elsewhere. The agreement below has consequently been entered into by the University and Ripon College.

1. Graduates of Ripon College, who have followed the course outlined as the Pre-Engineering Group of studies, will be graduated from the various engineering courses leading to the degree of Bachelor of Science in two additional years; provided that students in civil engineering can make arrangements to complete the sophomore surveying before entering the University. (This may be done in the University Summer School.)

2. Graduates who have pursued the studies of this group, will be graduated from the advanced engineering course leading to the professional degree in two years and two summer sessions at the University, with the provision concerning students in civil engineering above noted.

Note. The course as outlined, gives eighteen hours' work per week for freshmen, while the regular work is but fifteen hours. This course may be made to conform to the general plan, by deferring the course in Mechanical Drawing until the sophomore year. The student who undertakes eighteen hours' work, will be required to comply fully with the honor credit rule, or reduce the amount of work.

First Year.

First semester. English, four hours; German or French, four hours; Chemistry, four hours; Algebra, three hours; Mechanical Drawing, three hours. Second semester. English, four hours; German or French, four hours; Chemistry, four hours; Trigonometry, three hours; Mechanical Drawing, three hours.

Second Year.

First semester. Analytic Geometry, two hours; Differential Calculus, three hours; General Physics, five hours; ¹Quantitative Analysis, four hours; Descriptive Geometry, three hours; Electives: French or German, three hours; Composition, three hours; English Literature, three hours. Second semester. Analytical Geometry, two hours; Integral Calculus, three hours; General Physics, five hours; Surveying, four hours; Descriptive Geometry, three hours; ¹Analytical Chemistry, four hours; Electives: German or French, three hours; English Composition, three hours.

Third Year.

First semester. Advanced Calculus, three hours; ²Surveying; ⁴Organic Chemistry, five hours; Electives: Biology, four hours; Economics, four hours. Second semester. ³Differential Equations, three hours; ³Heat, four hours; ⁴Physical Chemistry, three hours; Electives: ⁴Botany, three hours; Economics, four hours.

Fourth Year.

First semester. Theoretical Mechanics, three hours; ⁵Geology, three hours; ⁴Bacteriology, five hours; ³Electricity, five hours; Electives: History, four hours; Advanced Chemistry, four hours; Philosophy, four hours. Second semester. Theoretical Mechanics, three hours; ⁵Mineralogy, four hours; ³Electrical Measurements, two hours; Electives: History, four hours; Philosophy, four hours.

¹ Required of Chemical, Sanitary, Electrical, Mining and Electrochemical Engineers

² Required of Civil and Sanitary Engineers.

³ Required of Civil, Mechanical and Electrical Engineers.

⁴ Required of Chemical and Sanitary Engineers.

⁵ Required of Mining and Sanitary Engineers.

SCHEDULE OF RECITATIONS.

First Semester, 1911-12.

Eight O'Clock	Education 5		T	W	Th	F				
	Composition 2		T		Th	F				
	English 10		T		Th	F				
	Economics 6		T			F				
	French 5	M		W		F				
	Latin 3	M		W		F				
	Mathematics 1	M		W		F				
Nine O'Clock	Biology 7		T	W	Th					
	Chemistry 1			W						
	Composition 4	M		W		F				
	French 3	M		W		F				
	French 9		T		Th					
	Greek 3		T	W		F				
	History 5	M	T		Th	F				
	Latin 11	M		W						
	Mathematics 1	M		W		F				
	Philosophy 2		T	W	Th	F				
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	Composition 5	M		W		F				
	French 1	M	T	W		F				
	German A	M	T	W		F				
	Greek A	M	T	W		F				
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	Chemistry 3				Th					
	English 5		T	W		F				
	English 12a	M								
	German 1	M	T	W	Th					
	German 5	M		W		F				
	Greek 7	M		W		F				
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Eleven O'Clock	Biology 4		T							
	Chemistry 1									

One O'Clock	Economics 3	M T	Th F	Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1 to 3; Saturday, 8 to 12.		
	English 1a	M	Th			
	English 1a	T	F			
	English 1b	M	Th			
	English 1b	T	F			
	German 7	T	Th			
	Greek 9	T	Th			
	History 1	M T	Th F			
Two O'Clock	Mathematics 7	T	Th F			
	Archaeology 4	M	Th			
	Economics 1	M T	Th F			
	French 7	M T	Th			
	German 1	M T	Th F			
	Greek 1	M T	Th F			
	History 17	M T	Th F			
	Mathematics 7	T	Th F			
Three O'Clock	Bible 10	T	Th F	German 3	M T	Th
	Biology 1	M	Th	History 13	M	Th
	Chemistry 5	T	Th F	Physics 8	T	
	English 9	M	Th			
	French 1	M T	Th F			

Second Semester, 1911-12.

Eight O'Clock	Education 6	T W	Th F	Laboratory hours, 8 to 10 A. M.		
	Composition 3	T	Th F			
	English 6	T	Th F			
	Economics 6	T	F			
	French 6	M W	F			
	Latin 4	M W	F			
	Mathematics 2	M W	F			
Nine O'Clock	Composition 4	M W	F	Biology 3	M	F
	French 4	M W	F	Biology 2	W	S
	French 10	T	Th	Biology 9	T	Th
	Greek 4	T W	F	Chemistry 2a	M	F
	History 5	M T	Th F	Chemistry 2b	T	Th
	Latin 11	M W		Physics 2	M W	F
	Mathematics 2	M W	F			
	Philosophy 4	T W	Th F			
	Physics 2	T	Th			

Ten O'Clock	Biology 10	M T W	F	Latin A	M T W	F S
	Chemistry 2		Th	Latin 8	M T	Th
	Chemistry 10	M	W	Mathematics 3	M	W F
	German A	M T W	F	Mathematics 22	M	W F
	Greek A	M T W	F	Mathematics 8	T	Th
	French 2	M T W	F			

Eleven O'Clock	Archaeology 1a	T	Th	History 8	M T W	Th
	Biology 5	M	W	Latin 2	M T W	Th
	Biology 8	T	Th	Mathematics 3	M	W F
	Chemistry 2		F	Physics 4	T	Th
	Chemistry 4	T	Th	Physics 7	M	W F
	Chemistry 12	M	W	Mathematics 19	M	W F
	English 3b	T	Th F			
	English 12b	M				
	German 2	M T W	Th			
	German 6	M	W F			
	Greek 8	M	W F			

One O'Clock	English 1a	M	Th
	English 1a	T	F
	English 1b	M	Th
	English 1b	T	F
	German 8	T	Th
	Greek 9	T	Th
	History 4	M T	Th F
	History 19	M T	Th F
	Mathematics 7	T	Th F

Laboratory hours for advanced courses in Biology, Chemistry, Physics, M., T., Th., F., 1 to 3; Saturday, 8 to 12.

Two O'Clock	Economics 7	M T	Th F
	French 8	M T	Th
	German 2	M T	Th F
	Greek 2	M T	Th F
	History 15	M T	Th F
	Mathematics 7	T	Th F

Three O'Clock	Bible 3	M T	Th	French 2	M T	Th F
	Biology 3	T	F	German 4	M T	Th
	Biology 2	M		History 13	M	Th
	English 7	M	Th	Physics 8	T	

Description of Courses

BIBLE AND RELIGION.

Professor Evans.
Professor Mutch.

These courses are pursued with the same exacting requirements of scholarly work as any other course. The Bible is taught with reverent scholarship, and a knowledge of the Bible is considered as an essential element of culture and a practical requisite of life. The courses are given by four men who are especially interested and qualified in their own subject-matter and point of view.

Professor Evans.

1. **Theism.** In this course the student is led to an appreciation of that system of philosophy which finds its first principle in a Personal God. Open to juniors and seniors. Lectures, Class Discussions, Readings.

First semester. Three hours. Omitted in 1911-12.

2. **The Messages of Hebrew Prophecy.** This vital literature will be studied in its historical and sociological aspects. Omitted in 1911-12.

3. **The Life and Letters of the Apostle Paul.** The biography of this great Christian Missionary will be carefully studied from the Book of Acts, and his writings studied in their proper settings, with a view to a perspective of his underlying truths.

Second semester. Three hours. M., T., Th., 3:15.

The two courses above will be given in alternate years.

Professor Mutch.

10. **Problems of Religion.** A study of the nature and origin of religious phenomena and experience; religious education, institutions and ideals of religion, and the religious aspect of modern life.

First semester. Three hours. T., Th., F., 3:15.

12. Hebrew Histories. An intensive study of the Books of Samuel, affording a key to the right understanding of the Old Testament, and a practice in the right method of Bible study, followed by a more rapid survey of the later Hebrew history.

Through the year. One hour. Sunday, 9:15.

The following courses by Professor Mutch are given in other years, at the same hour:

The Teaching of Jesus.

First Forms of Christianity.

Hebrew Poetry and Philosophy.

Related courses in other departments are the following:

Professor Taintor.

9a. The Bible as Literature. The Old Testament. Omitted in 1911-12.

9b. The Bible as Literature. The New Testament. Text-book: "The Modern Reader's Bible," Moulton.

First semester. Two hours. M., Th., 3:15.

Professor Erickson.

9. Greek Testament. A careful study, text and interpretation of selected passages in the Greek New Testament. Prerequisite: Greek A.

Through the year. Two hours. T., Th., 1:15.

PSYCHOLOGY.

Professor Evans.

A course in general Psychology, leading the student to a better knowledge of the Self and its manifestations, and giving a foundation for an appreciation of the problems of philosophy, education and ethics. This course presupposes an elementary knowledge of the brain and the nervous system.

Open to juniors and seniors. First semester. Three hours. T., Th., F., 10:15.

PHILOSOPHY.

Professor Mutch.

1. Method of Nature. A beginning course in Philosophy. It exercises the student in thinking independently, and in discussing the more elementary questions about nature, especially its unity and its developmental aspects.

First semester. Four hours. Omitted in 1911-12.

2. Philosophy of Culture. The laws and forces operative in human life and society furnish the subject matter. The method is extensive reading and class discussion. The aim is to practice the student in thinking on philosophical subjects, and to ground him in the fundamentals of the higher life of man. The first part constitutes a course in Ethics.

First semester. Four hours. T., W., Th., F., 9:00.

3. Types of Modern Thought. A history of thought upon the aspects of reality since Descartes.

Second semester. Four hours. Omitted in 1911-12.

4. Logic and Metaphysics. The work begins with a short course in Logic, which is followed by a standard course in the problems of reality and knowledge, using as a text-book Paulsen's "Introduction to Philosophy," and reading some selected works of the modern philosophers.

Second semester. Four hours. T., W., Th., F., 9:00.

Greek Philosophy in its Relation to Christianity. See Greek 8. Professor Erickson.

EDUCATION.

Professor Mutch.

These courses aim to serve a double purpose of affording the general culture of a liberal education, and also the professional training most useful for teaching, especially in the secondary schools.

A state teacher's certificate is granted on application to the state superintendent, without examination by the state board of examiners, to graduates of Ripon College, who have satisfactorily completed one year's work in the standard courses in Pedagogy, that is, either Education 5-6, or Education 7-8, and the regular course in Psychology, and who have had one year of successful experience in teaching in Wisconsin after graduation. A special license is issued for the first year.

For those who expect to make teaching a profession, it is desirable to take all the courses in Education 5 to 11, and at least one of the departmental courses for teachers.

5. History of Education. The whole history of educational theory and practice from primitive to modern times, is studied, for the purpose of gaining an insight into the principles and institutions of education. Monroe's "Brief History of Education" is the basis of the course, and selected outside reading is required.

First semester. Four hours. T., W., Th., F., 8:00.

6. Pedagogy. A study of the theory and general method of Pedagogy, based on educational psychology and the best modern practice; special method, discipline and school management. The work is done by means of text-book, lectures, outside reading, class discussions, and observation work.

Second semester. Four hours. T., W., Th., F., 8:00.

7. Philosophy of Education. A study of educational theory, especially as to its foundations in Psychology, Biology and Sociology. Bolton's "Principles of Education" is the basis of the course, and outside reading is required.

First semester. Four hours. Omitted in 1911-12.

8. High School Teaching. A study of the pedagogy of secondary education; the organization and curriculum of the high school; the educational values of the subjects; general and special method; teaching how to study; and other practical problems. The course is conducted by lectures, discussions, assigned topics and readings, and systematic observation work. Some facilities are offered for practice teaching.

Second semester. Four hours. Omitted in 1911-12.

9. Grading and Curriculum. The psychological basis of grading is studied, together with the materials best suited to produce educative results at different stages of educational development, both in general and in religious education.

First semester. Three hours. Omitted in 1911-12.

10. Problems of Religion. A study of the nature and origin of religious phenomena and experience; religious education, institutions and ideals of religion, and the religious aspect of modern life.

First semester. Three hours. T., Th., F., 3:15.

11. Colloquium. Reports on books, journals and other current discussions in Education and Philosophy. Open to students in either subject.

Through the year. One hour. Hour to be arranged.

Courses for Teachers.

Latin. See Latin 12. Professor Bridgham.

German. See German 7 and 8. Professor Harwood.

English. See English 12a and 12b. Professors Taintor and Shurtleff.

Physics. See Physics 10. Professor Barber.

Public School Music. Six courses. See School of Music. Professor Bintliff.

GREEK.

Professor Erickson.

A. Course for Beginners. White's "First Greek Book," Goodwin's Grammar, Goodwin and White's Anabasis.

A year course. Four hours. M., T., W., F., 10:15.

1-2. Xenophon, Homer. Selections from the Hellenica of Xenophon; Homer's Odyssey, selected portions. Systematic review of grammar.

Through the year. Four hours. M., T., Th., F., 2:15.

3-4. Plato, Euripides, Aristophanes, Lucian. Plato's Apology and selections from other writings; Euripides, Alcestis and Iphigenia in Tauris; Aristophanes, Acharnians; selections from Lucian.

Through the year. Three hours. T., W., F., 9:00.

5-6. Thucydides, Aeschylus, Demosthenes. Thucydides, the Sicilian Expedition; Aeschylus, Agamemnon; Demosthenes, On the Crown.

. Omitted in 1911-12.

7. Greek Literature. A study of the masterpieces of Greek literature through English translations; study of the influence of classical literature upon the form and content of subsequent literature to the present time.

The method used is a combination of the historical and topical. In each period such topics as the following are discussed: Epic poetry, the drama, pastoral idyl and romance, and wonder-stories. Lectures, assigned reading, reports, and a thesis.

First semester. Three hours. M., W., F., 11:15.

8. Greek Philosophy and Its Relation to Christianity. A survey of ancient philosophy, and of the more popular religious and ethical ideas, down to and including contact with Christianity.

Second semester. Three hours. M., W., F., 11:15.

9. Greek Testament. A careful study, text and interpretation of selected passages in the Greek New Testament. Prerequisite: Greek A.

Through the year. Two hours. T., Th., 1:15.

LATIN.

Professor Bridgham.

Miss Davis.

A. Course for Beginners. Elements of Latin; Caesar.
Through the year. Five hours. M., T., W., F., S., 10:15.

B. Cicero-Virgil. Cicero's Orations; Virgil's Aeneid, Books I-VI.

Through the year. Five hours.

1. **Livy.** Selections from Book 1 and "The Siege of Syracuse." **Cicero.** De Amicitia. Prose composition.

First semester. Four hours. M., T., W., Th., 11:15.

2. **Horace.** Odes and Epodes. Lectures on the development of Latin poetry.

Second semester. Four hours. M., T., W., Th., 11:15.

3. **Plautus.** Captivi, with introductory work in Allen's "Remnants of Early Latin." **Ovid.** Selections.

First semester. Three hours. M., W., F., 8:00.

4. **Tacitus.** The Annals. Lectures on the history of the Empire under the Caesars. **Martial.** Selected Epigrams.

Second semester. Three hours. M., W., F., 8:00.

5. **Lucretius.** De Rerum Naturae. **Virgil.** Eclogues.

First semester. Three hours. Omitted in 1911-12.

6. **Roman Letters.** Selections from the correspondence of Cicero and of the younger Pliny.

Second semester. Three hours. Omitted in 1911-12.

7. **Roman Satire.** Selections from Juvenal, Horace and Persius.

First semester. Three hours. M., T., Th., 10:15.

8. **Roman Comedy.** Selected plays of Plautus and Terence, for rapid reading.

Second semester. Three hours. M., T., Th., 10:15.

11. **Latin Literature.** The work includes: (1) the translation of all the passages in Smith's "Selections" from the beginning to Cicero, and many passages of the chief authors from Cicero to Gellius; (2) lectures on the history of Latin Literature, supplemented by collateral reading; (3) the preparation of a paper on some topic connected with the work. Required of those who major in Latin.

Text-books: Smith's "Latin Selections," Mackail's "Latin Literature."

Through the year. Two hours. M., W., 9:00.

12. Course for Teachers. Caesar and Cicero. This course is designed for those students who expect to teach Latin. The Civil War of Caesar will be read, and several of Cicero's Orationes which are not commonly read in the high school. About one-fourth of the work will be devoted to prose composition based on the text translated, and to reviews of case and mood constructions. Discussions will be held on matters pertaining to the teacher's work. Required if Latin is a major subject.

First semester. Three hours. Omitted in 1911-12.

13. A continuation of Course 12. The last six books of Virgil's Aeneid will be read. Lectures on the earlier books, based upon Heinze's "Virgil's Epische Technik." Required if Latin is a major subject.

Second semester. Three hours. Omitted in 1911-12.

ARCHAEOLOGY.

Professor Erickson.

Professor Bridgham.

1a. Classical Archaeology. A study of ancient civilization through the medium of archaeological material. The study is taken up chronologically. The characteristics of each period are studied in the results of important excavations. Emphasis is placed on the relation of archaeology to literature and history.

First semester. Two hours. T., Th., 11:15.

2. Greek Art. The primary object of this course is to familiarize the student with the important remains of ancient art, and the principles of classic architecture and sculpture.

First semester. Two hours. Omitted in 1910-11.

3. Topography and Monuments of Ancient Rome. This course traces the growth of the ancient city from its foundations to the fourth century. No knowledge of Latin is required. Notes will be taken, and outside reading required. Required of students whose major is Latin.

First semester. Two hours. Omitted in 1911-12.

4. Roman Private Life. Lectures are given on the following subjects: the Roman name, the organization of the family, marriage and divorce, children—their nurture, amusements and education; slaves, freedmen, clients and hospitals; houses—their construction, decoration and furnishing; dress, daily and social life, theatre, circus, amphitheatre and public baths; writing, manuscripts, and libraries, travel, arts and in-

dustries; religion and burial. The course is open to all students of the College, and no knowledge of Latin is required. Notes will be taken, and outside reading required. Required of students whose major is Latin.

First semester. Two hours. M., Th., 2:15.

5. Roman Archaeology. A detailed study is made in this course of the ancient monuments in Rome and Pompeii, and of Roman Topography. Students are sent to the classical authors themselves first, and then to the modern English writers for fuller descriptions. Many of the inscriptions in the Corpus, Vol. VI. are read. Maps are drawn. Several hundred photographs and slides are studied. Open only to juniors and seniors.

Through the year. Three hours. Omitted in 1911-12.

A laboratory fee of \$1.50 is charged in Courses 1a, 2, 3, 4 and 5.

GERMAN.

Professor Harwood.

Miss Zobel.

Miss Zobel.

A. Course for Beginners. This course is arranged for students who have not met the college entrance requirements in German. The work, if satisfactorily done, will admit the student to the Freshman German.

Thomas' "Practical German Grammar," Part I. Reading, dictation, memorizing, reciting in German.

Through the year. Four hours. M., T., W., F., 10:15.

First Year.

1 and 2. Freshman German. This course is intended to continue the work begun in the secondary schools. It is conducted in German, and the lessons are to be recited in part in German.

Study of the novel or the short story, three hours; prose composition, one hour.

Through the year. Four hours.

Section 1: M., T., W., Th., 11:15.

Section 2: M., T., Th., F., 2:15.

Second Year.

Professor Harwood.

3. Sophomore German. This course is conducted entirely in German. Study of the works of Riehl, Rosegger, Saar, Storm, and others, with written reviews of the works read.

First semester. Three hours. M., T., Th., 3:15.

4. Sophomore German. This course is conducted in the same manner as 3. Study of the dramas of Freytag, Fulda, Grillparzer, Sudermann, and Wildenbruch.

Second semester. Three hours. M., T., Th., 3:15.

Third Year.

5. Lessing-Schiller. The principal plays of these two dramatists are studied. Written reviews of the works read.

First semester. Three hours. M., W., F., 11:15.

6. Goethe. This course is conducted on the same plan as the Lessing-Schiller course.

Second semester. Three hours. M., W., F., 11:15.

Fourth Year.

7 and 8. Course for Teachers. This course is designed for students who are intending to teach, and is open to those who have completed 5 and 6.

Composition on assigned themes, one hour; review of the grammar, one hour; recitation on readings from German newspapers and periodicals in addition.

The members of this class are called upon to conduct recitations, and are also given opportunity to act as substitute teachers.

Through the year. Two hours. T., Th., 1:15.

FRENCH.

Professor Harwood.

Associate Professor Simmons.

Associate Professor Simmons.

1 and 2. Elementary French. Grammar, reading, composition, dictation, and oral exercises. Thieme and Effinger's French Grammar. Much attention is paid to pronunciation; and, as far as possible, French will be the language of the class-room.

Through the year. Four hours.

Section 1: M., T., W., F., 10:15.

Section 2: M., T., Th., F., 3:15.

3. Sophomore French. Reading and composition; supplementary reading and reports. The class-room work is, as far as possible, conducted in French. The following texts suggest the nature of the reading, rather than the actual works that may be read: Daudet's Short Stories; Mérimée's "Colomba"; Erckmann-Chatrian's "Conscrit de 1813"; De Vigny's "Cachet Rouge," etc.

First semester. Three hours. M., W., F., 9:00.

4. Sophomore French. A continuation of Course 3.

Second semester. Three hours. M., W., F., 9:00.

Professor Harwood.

5. Advanced Reading. The texts will be chosen largely from the seventeenth century classics, and from the novels and dramas of the nineteenth century. A large amount of reading will be done; students will give frequent written and oral reports and summaries in French.

First semester. Three hours. M., W., F., 8:00.

6. Advanced Reading. A continuation of Course 5.

Second semester. Three hours. M., W., F., 8:00.

Associate Professor Simmons.

7. French Literature. General survey of the fourteenth, fifteenth and sixteenth centuries. Lectures, readings and reports.

First semester. Three hours. M., T., Th., 2:15.

8. French Literature. The seventeenth century. Lectures, readings and reports.

Second semester. Three hours. M., T., Th., 2:15.

9. French Composition and Conversation. Prerequisite: Courses 1 and 2 above. Except by special permission, may be taken only by students enrolled in some other course in French. Especially recommended to students taking French 3. Required of students who major in the department.

First semester. Two hours. T., Th., 9:00.

10. French Composition and Conversation. A continuation of Course 9.

Second semester. Two hours. T., Th., 9:00.

ENGLISH.

Professor Taintor.

Professor Shurtleff.

The work in English includes the study of Literature, and of Composition. The Literature courses, and also the first year work in the History of English Literature, are given by

Professor Taintor. The courses in Composition are given by Professor Shurtleff.

The course known as English 1, including 1a and 1b, is a prerequisite for all other courses in English, and should be taken in the first year.

A Course for Teachers, designed for those in the upper classes who are preparing to teach, will also be given. The course will include a review of the college entrance requirements under Professor Taintor in the first semester, and a review of the principles of composition under Professor Shurtleff in the second semester. This is a full year course, one hour a week. No credit will be given for less than a year's work.

ENGLISH LITERATURE.

Professor Taintor.

Required of freshmen.

1a. The History of English Literature. A general survey of English literature from the earliest period to the Victorian age.

Through the year. Two hours.

Section 1: M., Th., 1:15.

Section 2: T., F., 1:15.

The following courses are open to sophomores.

10. The American Poets. Readings in the representative poets of America. Text-book: "The Chief American Poets."

First semester. Three hours. T., Th., F., 8:00.

9b. The Bible as Literature. The New Testament.

First semester. Two hours. M., Th., 3:15.

3b. The Comedies of Shakespeare.

Second semester. Three hours. T., Th., F., 11:15.

7. English Prose. The course follows the development of prose from Bacon to Ruskin.

Second semester. Two hours. M., Th., 3:15.

9a. The Bible as Literature. The Old Testament. Text-book: "The Modern Reader's Bible," Moulton.

First semester. Omitted in 1911-12.

2. Chaucer. This course is designed for those who desire a general acquaintance with Chaucer's poems, and an insight into the life of the fourteenth century. It consists chiefly of the reading of Chaucer, with frequent reports upon matters pertaining to his times. It requires no previous study of Middle English.

Second semester. Omitted in 1911-12.

The following courses are open to juniors and seniors.

3. Shakespeare. The Historical Plays.

First semester. Three hours. Omitted in 1911-12.

5. The Romantic Movement. Studies in the poems of Wordsworth, Coleridge, Scott, Byron, Shelley, Keats.

First semester. Three hours. T., W., F., 11:15.

6. The Age of Tennyson. Studies in the poems of Tennyson and Browning.

Second semester. Three hours. T., Th., F., 8:00.

8. The Drama Before Shakespeare. The gradual development of the drama is traced, and the earlier plays are read.

Second semester. Three hours. Omitted in 1911-12.

3a. Shakespeare. Studies in the Tragedies.

First semester. Omitted in 1911-12.

4. The Age of Milton. Special attention will be given to "Paradise Lost" and "Paradise Regained." Assigned readings and reports on the life and work of Milton. A brief study will be made of Bunyan's "Pilgrim's Progress."

Second semester. Omitted in 1911-12.

12a. Course for Teachers. This course is given in connection with the Course 12b under Professor Shurtleff, and should be taken only by those who plan to take the whole year's work.

First semester. One hour. M., 11:15.

ENGLISH COMPOSITION.

Professor Shurtleff.

1b. Freshman English Composition. The course consists of a study of the principles of composition, aiming to present matter essential to all writing. In pursuance of this aim, the first semester is devoted chiefly to correctness of detail in written discourse. During the second semester the work of the course will deal mainly with Exposition, the most useful form of prose discourse.

Text-books: "The Foundations of Rhetoric," Adams Sherman Hill; "Specimens of Prose Composition," Nutter, Hersey and Greenough; "The Principles of Composition," Pearson.

Through the year. Two hours.

Section 1: T., F., 1:15.

Section 2: M., Th., 1:15.

2. English Composition. This course is intended primarily for sophomores who have done good work in English 1b, and who wish for more practice in composition. It deals with the four forms of prose composition: Exposition,

Argumentation, Description, and Narration. The work is carried on by lectures, themes, and conferences.

Text-book: "English Composition," Barrett Wendell.

First semester. Three hours. T., Th., F., 8:00.

3. Exposition. The work emphasizes the structural elements of exposition. It is especially desirable that the writing in this course should deal with subjects which the student is investigating in other college work. Written exercises, lectures, and private conferences.

Text-book: "Specimens of Exposition," Hammond Lamont.

Second semester. Three hours. T., Th., F., 8:00.

4. Advanced Composition. This course is intended for those who have some talent for writing. Students will be urged to develop power in that form of composition which they most prefer. Considerable emphasis will be laid upon practice in writing the short story.

Themes, lectures, and conferences.

Through the year. Three hours. M., W., F., 9:00.

5. Debating. Practice in brief drawing, in the composition of debates, and in the writing of argumentative prose. Each member of the class will thoroughly prepare two debates during the semester.

First semester. Three hours. M., W., F., 10:00.

HISTORY.

Professor Marston.

Associate Professor Nickell.

Course 1 in United States History is a prerequisite to all other courses in American History, and is not open to freshmen. Those intending to teach history, are urged to take courses 1, 5, 6, 7, 7b, and 8, and course 1 in Economics is required. For the requirements for a teacher's state certificate see the Departments of Psychology and Education, on page 38.

It will be necessary for those who wish to major in United States History, to take the work outlined below, together with courses 7 and 7b in European History; course 1 in Political Science; and courses 1, 3, 4 and 7 in Economics.

Students desiring to prepare for law, a business career, and certain branches of the foreign and domestic governmental service, will find the history courses recommended on page 27.

The work will be carried on by means of text-books, lectures, reports, and required readings. Separate and final examinations will be held on text-books and lectures. The minimum requirement of reading, exclusive of text-books, is twenty-five pages a week for every unit of credit.

AMERICAN HISTORY.

Professor Marston.

1. United States History. A general survey of the social, economic and political history of the United States. Lecture on the origin and growth of political parties. Not open to freshmen.

First semester. Four hours. M., T., Th., F., 1:15.

2. Westward Expansion. A study of westward migration, and the social, economic and political aspects of the formation of American commonwealths west of the Allegheny mountains. It embraces a study of the organization of the public land system; communication and transportation; the formation of new states; the evolution of the frontier, and the part the West has played in our national development.

Omitted in 1911-12.

4. Diplomatic History of the United States. This will be a study of the international relations of the United States from 1775 to the present day, including such topics as the following: Treaties relative to American commercial relations between various countries; foundations of a national foreign system in 1775; committee of foreign relations; embassies to Europe; French alliances; Spanish territorial diplomacy; the purchase of Louisiana; the northeast and northwest boundaries; the fisheries; the Isthmian canal; The Hague conference.

Second semester. Four hours. M., T., Th., F., 1:15.

12. American Development. A sociological interpretation of the history of the United States. It will consist of a study of the political or governmental, economic, intellectual and religious interests in their associational process, in order that the student may secure as complete an understanding as possible of American development and American problems. Omitted in 1911-12.

13. Seminar in American History. This course is designed to familiarize the student with the elements of historical method, investigation, criticism, and the use of sources. For this part of the work, Langlois and Seignobo's "Introduction to the Study of History" is used as a manual. The student

will embody the results of his study of method in an assigned topic for investigation, part of which, at least, must be from source material. Open only to seniors.

Through the year. One hour attendance and two hours' credit. Th., 3:15.

EUROPEAN HISTORY.

Associate Professor Nickell.

Students who specialize in European History are required to take courses 1, 5a, 5b, 6, 7a, 7b, 8, and course 1 in Economics, and are required further to elect from courses 14, 15, 16, or 17 to the number of eight hours.

5a. History of Greece. This course is a general survey of the history of Greece from the earliest times to the fall of Corinth. Emphasis is laid on both the political and the constitutional aspects of the subject.

Lecture and recitation methods employed.

This course is open to freshmen.

Text-book: "History of Greece," Oman.

First semester. Four hours. M., T., Th., F., 9:00.

5b. History of Rome. This course, which is designed to follow the History of Greece, and to constitute with that a year's work in Ancient History, is a general survey of the history of Rome from the earliest times to the era of Diocletian. As in the "History of Greece," emphasis is laid on both the political and the constitutional aspects of the subject. This course is open to freshmen.

Text-book: "Rome to the Death of Julius Caesar," How and Leigh.

Second semester. Four hours. M., T., Th., F., 9:00.

6. Mediaeval History. This course is a survey of continental Europe from the barbarian invasions to the close of the fifteenth century. Special emphasis is laid upon the development of the Frankish power under the Merovingian rulers; the empire of Charlemagne; the rise of the papacy; feudalism; France under the Capetians; the Hohenstauffen rulers; the struggle of empire and papacy; Mohammedanism; the Crusades; monasticism; Germany and Italy in the later Middle Age; the Hundred Years' War; mediaeval culture; the rise of the towns; beginnings of the Renaissance.

This course is designed especially for freshmen.

Text-books: "History of Western Europe," Robinson; "Readings," Vol. I., Robinson.

First semester. Four hours. M., T., W., Th., 11:15.

8. Modern History. This course is a general survey of Europe from the close of the fifteenth century to the present day. It is designed as a continuation of Course 6.

The course lays emphasis upon the Renaissance; the Lutheran revolt; the Protestant revolt in Switzerland; the religious wars in France and the Netherlands; the Thirty Years' War; France under the Bourbons; the rise of Prussia; Russia as a European state in the modern period; the French Revolution; the Napoleonic Era; the revolutions of the nineteenth century.

This course is designed especially for freshmen.

Text-books: "History of Western Europe," Robinson; "Readings," Vol. II., Robinson.

Second semester. Four hours. M., T., W., Th., 11:15.

7a. English Political and Constitutional History. This course is designed as a study of the political and the constitutional history of England from the Teutonic conquest of Britain to the establishment of the Tudor dynasty.

First semester. Four hours. Omitted in 1911-12.

7b. English Political and Constitutional History. This course is a continuation of Course 9. It embraces a study of the political and the constitutional history of England from the accession of the Tudors to the nineteenth century.

Second semester. Four hours. Omitted in 1911-12.

17. Europe in the Feudal Age. This course is a study of the history and the conditions of western Europe from the fall of the Empire in the west to the Great Interregnum. Emphasis is laid on the development of the Frankish power, the origins of feudalism, and the growth of the papacy. The study of feudalism and the feudal conditions is made as thorough as possible. A constant use of collected documents is required. Lecture and recitation methods.

Prerequisite: Courses 7 and 8.

Text-books: "The Dark Ages," Oman; "The Empire and Papacy," Tout; "A Source Book of Mediaeval History," Thatcher and MacNeal.

First semester. Four hours. M., T., Th., F., 2:15.

15. Era of the Renaissance and the Reformation. This course is intended to include the general history of Europe in the fourteenth, fifteenth and sixteenth centuries, with particular and detailed study of the two movements named.

Prerequisite: Courses, 7 and 8.

Text-books: "The Close of the Middle Age," Lodge; "Europe in the Sixteenth Century," Johnson.

Second semester. Four hours. M., T., Th., F., 2:15.

14. Europe in the 17th and 18th Centuries. This course is a study of the rise of France to pre-eminent power, and the beginnings of her decay; the rise of Prussia and Russia; something of England's expansion in these centuries; the French Revolution; the era of Napoleon.

Prerequisite: Courses 7 and 8.

First semester. Four hours. Omitted in 1911-12.

16. Europe in the 19th Century. This course is concerned with a study of European affairs from 1815 to the present time. It lays emphasis upon the effects of the revolutionary movements of the century; the development of institutions; the progress of international relations.

Prerequisite: Courses 7 and 8.

Second semester. Four hours. Omitted in 1911-12.

18. Political Science 1. This course embraces a study of the general principles of the government of the United States as they are today in operation. The work of the course is preliminary to further work in the subject of Political Science. Lecture and recitation methods.

Text-book: "Readings in American Government and Politics," Beard.

First semester. Four hours. Omitted in 1911-12.

19. International Law. This course treats of the nature and the history of international law, and rules observed among states during peace, war, and neutrality.

Second semester. Four hours. M., T., Th., F., 1:15.

ECONOMICS.

Professor Marston.

Course 1 is not open to freshmen. It must precede all other courses in economics, and is required of those taking their major in history. Those majoring in economics are required to take the work outlined below, together with course 1 in political science, courses 1, 2, 6, 7, 7b, and 13 in history.

Students desiring to prepare for law, a business career, and certain branches of the foreign and domestic governmental service, will find the economic courses recommended on page 27.

The work will be carried on by means of text-books, lectures, discussions, reports, and required readings. Separate and final examinations are held on both texts and lectures in all courses. The minimum requirement of reading, exclu-

sive of the text-books, is twenty-five pages a week for every unit of credit.

1. The Principles of Economics. A general survey introductory to all other courses in economics. Its purpose is to acquaint the student with fundamental principles, to open the field for a more detailed and extensive study, and to offer such rules and principles as are contributed to business success by the science of economics.

First semester. Four hours. M., T., Th., F., 2:15.

2. The Principles of Public Finance. A general course embracing: (a) public expenditures, their nature, classification and relation to public welfare, lectures; (b) public revenues, their classification, nature and characteristics. Taxation will receive particular attention. Its nature, principles, sources, limits, incidence and influence, and in the study of its particular forms, as the general property tax, income, inheritance and business taxes. (c) Public Credit; when and how employed; contraction of public debts, their classification, flotation, conversion, funding and redemption. (d) Financial Administration; the budget, its preparation, form and composition; collection of revenue; war financiering. Text-book: "Finance," Adams. Omitted in 1911-12.

3. Economic Problems. This course embraces a study of labor and capital; free trade and protection; immigration; industrial crises; transportation and railroad rates; the trust problem and municipal ownership.

First semester. Four hours. M., T., Th., F., 1:15.

4. Money, Credit and Banking. An examination of value and functions of money; standards of value; currency systems of the world; a review of the positions of the bimetallists and the quantity theorists; systems and coinage of metallic currency; credit, credit documents; paper money, convertible and inconvertible notes; clearing-houses; foreign exchanges; banks and banking; modern currency problems; foreign banking systems. Omitted in 1911-12.

7. Social and Industrial Reform. This course embraces a study of co-operation; profit-sharing; communism; socialism; factory legislation; workingman's insurance; trade unionism, and industrial federation.

Second semester. Four hours. M., T., Th., F., 2:15.

6. Economic Seminar. The course is designed to afford training in economic investigation and practice in the use of sources. Each member of the class is expected to complete some single topic, embodying the results of his special re-

search, and present it in the form of a written thesis for criticism and discussion. The field from which topics are chosen will vary from year to year. Open only to seniors.

Through the year. One hour attendance and two hours' credit. T., 8:00.

MATHEMATICS.

Professor—————

Associate Professor Sherwood.

Associate Professor Mergendahl.

Professor Sherwood.

1. Algebra. The first few weeks are devoted to a brief review of the topics covered by the college entrance requirements in algebra. The remainder of the course is given to the study of the elementary properties of quadratic equations; progressions; complex numbers; undetermined coefficients; binomial theorem; permutations and combinations; the general theory of equations and elements of determinants.

First semester. Three hours.

Section 1: M., W., F., 8:00.

Section 2: M., W., F., 9:00.

Professor Sherwood.

2. Plane Trigonometry. This course covers the elementary theory of trigonometric functions and the elements of logarithms. Special stress will be laid on practice in computation, the solution of triangles, and the reduction of identities.

Second semester. Sections and hours the same as for Mathematics 1.

Professor Mergendahl.

3. Mechanical Drawing. Use of instruments; geometrical problems; graphical solution of conic sections; orthographic projection; isometric projection; development of surfaces; intersection of surfaces; working drawings; lettering; tracing and blue-printing. No credit given unless taken continuously through the year.

Through the year. Three hours. M., W., F., 10:15-12:15.

Professor Mergendahl.

4. Plane Surveying. Use and adjustment of instruments; miscellaneous field problems; computations; topographic drawing; the theory of simple railroad curves.

Prerequisites: Trigonometry and Mechanical Drawing.
Through the year. Four hours.
Given in alternate years with Course 7.
Omitted in 1911 and 1912.

Professor Mergendahl.

7. Descriptive Geometry. Problems relating to the point; line and plane; generation and classification of lines and surfaces; planes tangent to surfaces of single and double curvature; intersections, developments and revolutions.

Given in alternate years with Course 4.

Prerequisite: Mechanical Drawing.

Through the year. Three hours. T., Th., F., 1:15-3:15.

Professor Sherwood.

8. Analytic Geometry. The point; loci; the straight line; transformation of co-ordinates; the circle. A study of the general properties of conics, including a discussion of the general equation of the second degree. A brief course on the analytic geometry of three dimensions.

Prerequisite: Mathematics 1 and 2.

Through the year. Two hours. T., Th., 10:15.

9. Differential Calculus. Rates and limits; rules for differentiation; tangents and normals; maxima and minima; points of inflection; theorems of mean value; Taylor's theorem; curvature; evolutes; envelopes. Constant applications to Geometry and Mechanics.

Prerequisite: Mathematics 1 and 2. (Mathematics must be taken with this course.)

First semester. Three hours. M., W., F., 10:15.

22. Integral Calculus. This course supplements Mathematics 4, the two courses constituting one year's work in calculus. Indefinite and definite integrals; rules for integration; application of the general principles of the integral calculus to geometry, centers of gravity, moments of inertia, etc.

Prerequisite: Mathematics 4.

Second semester. Three hours. M., W., F., 10:15.

20. Advanced Calculus. Infinite Series; Taylor's theorem; partial differentiation; maxima and minima of two or more variables; definite integrals over curves, surfaces and volumes. Fourier's Series.

Prerequisite: Mathematics 4 and 5.

First semester. Three hours.

Given in alternate years with Mathematics 19.

15. Differential Equations. Integration of differential equations of the first order, of differential equations of higher order than the first, and of systems of differential equations; integration of linear differential equations; by means of series or definite integrals; integration of partial differential equations and systems of such equations.

Prerequisite: Mathematics 5.

Second semester. Three hours.

Given in alternate years with Mathematics 19.

19. Theoretical Mechanics. Statics force and Newton's Laws of motion; dynamics of a particle; trajectories; friction; central forces; elementary theory of planetary motions; work and energy; momentum and impulse; dynamics of a rigid body; motion of systems of particles, virtual work; centers of mass; moments of inertia; D'Alembert's Principle; Euler's Equations; generalized co-ordinates.

Prerequisite: Mathematics 4 and 5.

Through the year. Three hours. M., W., F., 11:15.

Given in alternate years with Mathematics 20 and 15.

BIOLOGY.

Professor Talbert.

Mr. Loshinski.

The department of Biology has courses that are well adapted for general culture, and for specialization. Those who intend to teach or study medicine, agriculture or forestry, will find suitable courses, and laboratories well equipped for these special subjects.

1. Comparative Anatomy of Invertebrates. The anatomy, and to some extent the physiology, of invertebrate animals are studied. Dissections and drawings are made of representatives of the most important classes of invertebrates.

Text-book: "Invertebrate Zoology for Laboratory Work," Pratt. "Zoology," Hertwig.

First semester. Four hours. M., Th., 3:15. Laboratory, M., F., 8:00-10:00.

2. General Botany. A study of the morphology and physiology of the types of all classes beginning with the unicellular forms and ending with the flowering plant, much emphasis being laid on the development from the evolutionary standpoint.

Text-book: "Elementary Biology," Parker.

Second semester. Three hours. M., 3:15. Laboratory, W., S., 8:00-10:00.

3. Comparative Anatomy of Vertebrates. This course is designed to give an idea of the life history of vertebrates. The frog is taken as a type, and a fairly complete study is made of its natural history, anatomy, physiology, and development. Instinct, intelligence, adaptation to environment, etc., are also discussed. This is followed by a comparative study of different types of chordates like the balanoglossus, amphioxus, perch, turtle, pigeon and some mammal, which is intended to give the student comprehensive knowledge of the structure and development of vertebrates in general.

Text-books: "Vertebrate Zoology for Laboratory Work," Pratt. "Zoology," Hertwig.

Second semester. Four hours. T., F., 3:15. Laboratory, M., F., 8:00-10:00.

4. Histology. The student who has completed course 3 on the gross anatomy of animals, is prepared to study the microscopic structure of the various tissues. Each student prepares sections, stains, and mounts tissues, and makes drawings from his own preparations and from slides belonging to the department.

Prerequisite: Course 3.

Text-book: "Histology," Hill.

First semester. Four hours. T., 11:15. Laboratory, T., Th., F., 1:15-3:15.

5. Embryology. Work is confined to the embryology of vertebrates, the frog and the chick serving as types. The laboratory is provided with an incubator, and each student makes preparations of the different stages of development of the types studied.

Prerequisite: Courses 3 and 4.

Text-book: "Embryology," Foster and Balfour.

Second semester. Five hours. M., W., 11:15. Laboratory, M., T., Th., 1:15-3:15.

6. Bacteriology. This course is intended to give training in bacteriological technique, and to give a knowledge of the principles of bacteriology. The characteristics of a number of typical bacteria are worked out in detail, and then the names of unknown species are determined. Experiments are performed, illustrating the physiological characteristics of bacteria. Quantitative analyses are made of air, milk, water. Those who desire this course as a preparation for Agriculture, can make suitable arrangements as to hours and special work.

Text-books: "Laboratory Manual," Frost, and "General Bacteriology," Jordan.

First semester. Five hours. Th., 10:00. Laboratory, M., T., Th., 1:15-3:15.

7. Physiology. This course is especially valuable to those intending to study medicine. It will also be found helpful by students intending to teach, and by those taking courses in psychology. The subject is taught by lectures, recitations, demonstrations and laboratory work. Much attention is given to muscle and nerve preparations, extrinsic and intrinsic action of the heart, blood pressure, vasomotor action, mechanical and chemical action of respiration, tests for foods and the artificial digestion of foods, functions of brain and spinal cord, and special senses.

Text-books: "Introduction to Physiology," Porter, and Howell's "Text-book of Physiology."

First semester. Five hours. T., W., Th., 9:00. Laboratory.

8. Paleontology. This is a course for the study of extinct animals, which is especially valuable for those who have studied Comparative Anatomy and Embryology. The former is considered a prerequisite, while the latter would be helpful. This subject will give a student a clearer insight into the evolutionary developments of animals. The museum is well equipped in fossils, especially those of the Wisconsin formations. The laboratory work consists of a study of these fossils.

Text-books: "Extinct Animals," Lankester; "Paleontology," Zittel.

Second semester. Two hours. T., Th., 11:15.

10. Physiology and Hygiene. This course is open, without prerequisites, to all college students. Only enough anatomy is studied to give the necessary foundation for an understanding of the workings of the human body. Much of the time of the course is devoted to questions of personal hygiene and the public health. Lectures, demonstrations, and recitations, with a few laboratory exercises.

Text-book: Martin's "Human Body," Advanced.

Second semester. Four hours. M., T., W., F., 10:15.

11. Journal Club. This course consists mainly of the review of articles in the biological journals. Only students who are making biology their major subject are admitted to this class.

Through the year. One hour.

CHEMISTRY.

Professor Gilman.
Mr. Raulston.

The Department of Chemistry, in a variety of courses, offers to the students ample facilities to prepare themselves for modern laboratory practice. The work of the first year consists of a thorough course in general chemistry and qualitative analysis, including lectures, recitations, and laboratory experiments. During the second year the students are given a systematic training in analytical methods, which is followed in the third year with courses in organic chemistry, and in the fourth year with courses in physiological and industrial chemistry. To students intending to pursue the study of medicine, opportunity is given to prepare for meeting the requirements now prescribed for candidates by the foremost medical schools of the country.

First Year.

1. General Chemistry. The work in this department begins with a course in elementary inorganic chemistry, with laboratory practice. It includes a study of the fundamental laws, and the non-metallic elements and their compounds. Lectures, recitations, quizzes, problems.

Prerequisite: Elementary Physics.

First semester. Four hours. W., 9:00; Th., 10:15; F., 11:15. Laboratory, M., F., 8:00-10:00; or T., Th., 8:00-10:00.

2. Qualitative Analysis. This is a continuation of course 1. A careful investigation of the metallic elements and their compounds is made during the first part of the semester, and the remainder of the time is devoted to Qualitative Analysis.

Prerequisite: Chemistry 1.

Second semester. Four hours. Th., 10:15; F., 11:15. Laboratory, M., F., 8:00-10:00; or T., Th., 8:00-10:00.

Second Year.

3. Quantitative Analysis. Lectures, recitations, and laboratory practice in the use of the methods of gravimetric and colormetric analysis; separation and estimation of metals, acids, and water of crystallization.

Prerequisite: Chemistry 2.

First semester. Four hours. Th., 11:15. Laboratory, M., T., Th., 1:15-3:15.

4. Analytical Chemistry. This is a continuation of course 3. Special applications of volumetric analysis; analysis of alloys, mineral and water analyses.

Prerequisite: Chemistry 3.

Second semester. Four hours. T., Th., 11:15. Laboratory, T., Th., 1:15-3:15.

Third Year.

6. Organic Chemistry. A course in general organic chemistry. Lectures, recitations, and laboratory work. The Aliphatic Series with special reference to the more important hydrocarbons and their derivatives.

Prerequisite: Chemistry 4.

First semester. Five hours. M., W., F., 10:15; Laboratory, S., 8:00-12:00.

10. Advanced Organic Chemistry. The Aromatic Series. Lectures, recitations, and laboratory work.

Prerequisite: Chemistry 6.

Second semester. Four hours. M., W., 10:15; Laboratory, M., F., 1:15-3:15.

Fourth Year.

5. Medical and Physiological Chemistry. A technical course for those who are preparing for the medical profession. This includes the examination of blood, muscular tissue, gastric digestion, testing of milk, and urinary analysis.

Prerequisite: Chemistry.

First semester. Five hours. T., Th., F., 3:15; Laboratory, M., F., 1:15-3:15.

12. Industrial Chemistry. Lectures and collateral reading, and laboratory practice. The subjects are: Cement, mortar and building material, milk products, cereals, starch, sugar, meat, oils, fats and soaps. Bleaching and dyeing. Tanning.

Prerequisite: Chemistry 6.

Second semester. Four hours. M., W., 11:15; Laboratory, T., Th., 1:15-3:15.

9. History of Chemistry. This course is designed for advanced students. During the first semester a study will be made of the history of chemistry, and during the second semester the historical development of the important theories of chemistry.

Prerequisite: Chemistry 4.

One hour. Time arranged on consultation.

8. Research Work. This course is designed for advanced students in chemistry. Special subjects, and the amount of credit, will be arranged on consultation with the instructor.

11. Journal Club. This course consists of discussion of articles appearing in the scientific magazines. An elective course for students in advanced Chemistry.

One hour through the year. Time arranged on consultation.

PHYSICS.

Professor Barber.

Mr. Meggers.

General Physics. Fundamental principles of physical science for those contemplating the study of any pure science, or engineering, or medicine, or teaching, are presented mainly from the experimental standpoint. The instruction in lectures, recitations, quizzes, problem papers and private readings is entirely concerned with the principles studied in the laboratory and the practical applications of the same. In this manner, a thorough grasp of foundation principles is obtained, by continually connecting theory and experiment.

The laboratory work is exclusively quantitative, the aim being to present the subject as a science of exact measurement. The apparatus is all new, and much of it but recently designed for this particular line of work. With it, the student is put in touch with the methods and instruments of modern physical investigation.

Prerequisite: Trigonometry.

General Reference Text: "Physics," Watson.

1. Mechanics, Molecular Physics and Heat.

Text-book: "Mechanics, Molecular Physics and Heat," Millikan.

First semester. Five hours. T., Th., 9:00.

Laboratory, M., W., F., 8:00-10:00.

Second division arranged on consultation.

2. Electricity, Magnetism, Sound and Light.

Text-book: "Electricity, Sound and Light," Millikan and Mills.

Second semester. Five hours as above.

3. Advanced Course in Light. Geometrical and Physical Optics will be treated in detail. Under the former head, some of the most important optical instruments will be studied; under the latter, the wave theory of light will be developed.

This course aims to be a practical and useful study of optics. Spectroscopy, diffraction, dispersion, interference, and polarization will be discussed thoroughly in lecture and recitation, and this discussion followed by accurate measurements in the laboratory.

Prerequisite: Courses 1 and 2.

Text-book: "Light for Students," Edser.

First semester. Four hours. T., Th., F., 10:15. Laboratory, M., 1:15-3:15; or S., 8:00-12:00.

4. Advanced Course in Heat and Molecular Physics. The aim of this course is to give a comprehensive view of the science of heat in its theoretical and experimental aspects; consequently, much of the recent work in this subject is discussed. The laboratory exercises consist of exact measurements in mercurial and air thermometry, calorimetry, mechanical equivalent of heat, coefficients of expansion and conductivity, vapor pressures and densities, freezing and boiling points, latent and specific heats, hygrometry and pyrometry. Particular attention will be given to the errors peculiar to heat measurements and the elimination of the same.

Prerequisite: Courses 1 and 2.

Text-books: "Heat for Advanced Students," Edser. "Heat," Poynting and Thompson.

Second semester. Four hours. T., Th., 11:15. Laboratory, M., 1:15-3:15 and S., 8:00-10:00 or 10:00-12:00; or S., 8:00-12:00.

5. Mathematical Theory of Electricity and Magnetism. This course discusses the fundamental principles of the mathematical theory of electricity and magnetism and their more important applications.

Prerequisite: Courses 1, 2, and Calculus.

Course 6a is designed to accompany this course.

Text-book: Foster and Porter's "Electricity and Magnetism" founded on Joubert's "Traité Élémentaire d'Electricité."

First semester. Three hours. M., W., F., 11:15.

6a and 6b. Electrical Measurements. A laboratory course of systematic instruction in precise electrical measurements for students of Physics and Electrical Engineering.

Prerequisite: Courses 1, 2, and Calculus.

Text-books: "Electrical Measurements," Carhart and Patterson. "Practical Electrical Testing in Physics and Electrical Engineering," Parr.

Through the year. Two hours. Laboratory periods arranged on consultation.

7. Kinetic Theory. A course introducing the mathematical theory of the subject, with collateral reading in Meyer's "Kinetic Theory of Gases" and Preston's "Theory of Heat."

Prerequisite: Courses 1, 2, 4, and Calculus.

Text-book: "Kinetic Theory," Boynton.

Second semester. Three hours. M., W., F., 11:15.

8a and 8b. Colloquium. At the weekly meetings the students present before the class, for informal discussion, reviews of articles appearing in the scientific journals. The course also aims to teach the student the efficient use of a reference library, and of the various indexes and catalogues. Each student is required to prepare a bibliography of some one physical subject.

Open only to students who take their major or minor in Physics.

Through the year. One hour. T., 3:15.

9. History of Physics. A course devoted to readings and discussions, in order that the student may become acquainted with the historical development of Physics.

Open only to juniors and seniors in Physics.

Text-book: "History of Physics," Cajori.

Second semester. One hour. This course will alternate with 8b.

10. Course for Teachers. A course designed especially to meet the needs of students who expect to teach Physics in the secondary schools.

Prerequisite: Courses 1, 2, 3 and 4.

Second semester. Two hours. Arranged on consultation.

11a and 11b. Experimental Physics (Advanced). A course of advanced laboratory work in Light, consisting of practical and useful optical methods which should be familiar to all who desire to make measurements of great precision.

Prerequisite: Courses 1, 2, 3, and Calculus.

Text-Book: "Manual of Advanced Optics," Mann.

Through the year. Two hours. Laboratory periods arranged on consultation.

MUSIC.

Professor Bintliff.

Courses in the Theory and History of Music as outlined in detail in the pages devoted to the School of Music will be credited as college electives. The maximum amount of credit allowed toward the degree of Bachelor of Arts will be twelve hours.

The College Awards

DEGREES.

Bachelor of Arts. The degree of Bachelor of Arts is conferred by the Board of Trustees, after recommendation by the Faculty, upon those candidates who have completed the collegiate requirements. These are as follows: The student must have a total credit of one hundred and twenty semester hours in the college courses. In addition to this, he must either present an acceptable thesis upon some theme related to the major subject of his course, or substitute for the thesis an advanced course during the senior year. The time required for the fulfillment of these conditions is usually four years.

Master of Arts. The degree of Master of Arts may be conferred upon any graduate of this College, or of any college offering substantially equivalent courses, who shall have completed an approved course of non-professional study equivalent to an additional year of college work, one-half of which, at least, is in a single department or in closely related departments. This work may be done during one year in residence at the College, or in the case of graduates of this College, during two years of non-residence. Examinations are required in all work of the approved course, and a satisfactory thesis upon some phase of the course must be presented at least one month before the close of the college year. Fees for all special examinations and the usual fee for the diploma are required.

PRIZES AND HONORS.

The following prizes are open to competition:

Mrs. John James English Prize Fund. These prizes are paid from the interest of a fund of \$1,500 given by Mrs. John James, of Boston, for the encouragement of English Composition in the College. Each prize will amount to about \$15; the second prize to \$10.

Prizes will be awarded the two successful contestants in the freshman class, on the basis of clearness of style, excellence in punctuation, in sentence and in paragraph structure, as shown in the manuscripts of the freshman year English exercises.

These prizes will be awarded to members of the sophomore and junior classes. The assignment of the prizes will be based

on excellence in writing, but the competing compositions may concern themselves with any subjects of general or academic interest. Sophomores or juniors who wish to become candidates for these prizes, should hand their productions to either of the professors of English, on or before May 1.

Prizes will not be awarded in any class for inferior work, or if there are less than twelve contestants.

Class of 1891 Prize for Oratory. A silver cup, valued at \$65, upon which shall be inscribed from year to year, between 1906 and 1915, the names of the winners in the home oratorical contest. The cup is to be the property of the College, and will be kept on exhibition in some suitable place.

J. T. Lewis Prize Fund. This was established by Hon. J. T. Lewis, of Columbus. The annual income of a fund of \$200 will be awarded to the student who prepares the best set of notes and drawings on the biological work of the freshman year. It will not be granted for inferior work.

Class of 1896 Memorial Prize Fund. The income, about \$20, of the Memorial Prize Fund of the class of 1896, will be awarded the successful contestant in a declamatory contest between members of the junior class each year.

Prize Scholarship. A friend of the College offers annually a prize to the member of the senior class who shows the greatest proficiency and the best preparation for graduate study in any subject or subjects other than Mathematics or Science. The award will be made on the judgment of the Faculty, who will take into account the general scholarship of the student and his thesis. The prize is intended only for those who expect to do graduate work, and is sufficient to pay all tuition charges at the University of Wisconsin or the University of Chicago. Candidates for this prize should make application to the Registrar by May 25th of each year.

Department Fellowships. The head of each department has the privilege of recommending, for ratification by a vote of the Faculty, one advanced student of high standing as Fellow in the department.

The Rhodes Scholarships. In order to keep this well-known bequest before the minds of present or prospective students, it is briefly mentioned here. Circulars of full information can be obtained at the registrar's office. Any male student, who is a citizen of the United States and unmarried, not less than nineteen nor more than twenty-four years of age, and who has reached the end of his sophomore year of study, may be a candidate for one of the Wisconsin scholarships. This

insures to the winning contestants among the schools of the State a three-year residence in Oxford University, England.

All competitors must be prepared to take an examination in the following subjects: Arithmetic, the Elements of Algebra or the Elements of Geometry, Greek and Latin Grammar, translation from English into Latin, one Greek and one Latin book from authors such as Caesar, Cicero, Livy, Horace, Virgil, Homer, Xenophon, Plato, Sophocles, Euripides, and Demosthenes.

University Fellowship. The University of Wisconsin, through its President, has extended to Ripon College an invitation to appoint one of its graduates each year to a Fellowship in the University. The value of this Fellowship is \$225 a year.

The College Administration

GOVERNMENT.

Training in self-government is an important factor in education. To this end, each dormitory has its own house committee, responsible to the Faculty for order in the building. The College Commons is managed by the Co-operative Dining Association, also responsible to the Faculty.

The College Senate consists of the President of the College, the Dean of the Faculty, the Dean of Women, one representative from each College class, one from each of the dormitories, and one from the League, an organization of young women outside of Bartlett Hall. This Senate meets monthly during the year, for consultation about matters pertaining to the general welfare of the students.

The various activities of the students are all under the supervision of the proper committees of the Faculty.

THE COLLEGE YEAR.

The College year is divided into semesters. For the coming year the first semester begins on September 12, 1911; the second on February 1, 1912. A number of courses, complete in themselves, begin in the second semester. Students who enter College at that time will be able to avail themselves of such courses.

Besides the usual legal holidays, there are two vacations during the year, one at Christmas and one at Easter. The Christmas vacation for this year begins at 3:15 p. m. Friday, December 22, 1911, and closes at 8:00 a. m. Thursday, January 4, 1912. The Spring vacation for 1912 extends from Wednesday, at noon, April 3, to 8:00 a. m. Thursday, April 11. The Thanksgiving recess begins Wednesday, November 29, at noon, and closes on Monday, December 4, at noon.

A student who is absent from the last recitation period preceding the Christmas or Easter vacation, or the Thanksgiving recess, or from the first recitation following such vacations, will not be allowed to take the final examination in the subject missed, but may take it when the next regular examination in the subject is given. For special examinations, a fee of one dollar, payable at the College office, is charged.

Buildings and Equipment

THE COLLEGE BUILDINGS.

Ingram Hall, completed in 1900, and named after one of its principal donors, Mr. O. H. Ingram, of Eau Claire, is the main lecture hall of the College, and contains the College Library. On the first floor are situated the offices, the lecture-rooms, and laboratories of the departments of Biology and of Physics, and also the stack-room of the Library. The second floor is occupied by lecture-rooms, and by the reading-room and office of the Library. On the third floor are the Chemical laboratories and the lecture-rooms of the department of Philosophy and Education.

East College, the first building erected on the college campus, has been entirely remodeled. It now contains the offices of the College, and the studios and practice-rooms of the School of Music. The Young Men's and Young Women's Christian Associations also have rooms in this building.

Middle College, now called Smith Hall, in memory of the late Elisha D Smith, of Menasha, was opened as a dormitory in 1903. It is heated by steam, lighted by gas and electricity, and thoroughly equipped throughout. Besides the student apartments, this hall contains a reception-room, and in the basement an excellent bowling alley.

West College contains the College Commons. By means of funds provided by the Alumni, the first floor has been made into a thoroughly-equipped modern dining-room. The Co-operative Dining Association, which has charge of the Commons, provides a most excellent quality of board at small cost. The dining-room is large, finished in oak, is well lighted, and has two open fireplaces. There are ample cloak and waiting rooms, and the kitchen and serving-rooms are models of convenience, making it possible to serve the best meals at the lowest expense. This new Alumni Hall adds much to the comfortable living of the students. The second and third floors of West College are used as dormitories for men, and are equipped in the same thorough manner as the rooms in Smith Hall. The dormitory has also a large, pleasantly situated, and attractively furnished common room.

Bartlett Cottage, the Dormitory for women, named in honor of the late Sumner Bartlett, of Oshkosh, is situated at the southwest corner of the campus, just opposite the Presi-

dent's house. It is steam-heated throughout, and is supplied with hot and cold water. The suites for students consist of a study and bedroom, with the heavier pieces of furniture. In addition to these, the building contains a reception-room and a library, a guest-room, and also a kitchen and dining-room for occasional use. The reception-room is at the left of the entrance corridor; the rooms occupied by the resident Faculty member, Miss Simmons, are at the right. Through the generosity of the Advancement Association, the interior of the building has been made practically new during the past year.

Dawes Cottage. This is a frame building, now used as a dormitory for men, and is also the home of the engineer of the College.

Society Hall. The Old Chemical Laboratory, vacated when Ingram Hall was built, has been remodeled for other purposes. The north room is used for band practice, for debating societies and other men's clubs, on permission from the college office. The south room is used by the department of Mathematics, and is well equipped for the work of mechanical drawing.

The President's House. Dr. Merriman built for himself a large house just south of the College Campus. This house is now the property of the College, and is the residence of the President of the College.

Central Heating Plant. A complete central heating plant has recently been installed. The system results in increased comfort in the buildings, and in a large saving in cost. The steam supply pipes connecting the various buildings with the boilers, are so thoroughly insulated in the conduits, that the waste from radiation is reduced to a minimum. The boilers carry high-pressure steam, and there is room in the boiler house for installations of dynamos for the production of light and power. This heating system has proved a success from every point of view.

The Gymnasium. The Indoor Athletic Field, the central structure of the gymnasium, is now completed. It is of the best type of gymnasium architecture, and offers many unusual advantages for physical training and development.

The central portion of the indoor athletic field is equipped with a basketball floor, 80 by 50 feet. Around the floor is a running-track, built along modern speed lines, 17 laps to the mile, with an earth floor. This affords sufficient space for early Spring training in all track and field sports. The earth floor can also be used for football and baseball, when the weather prohibits the use of the Ingalls Athletic Park.

The seating arrangement and gallery make it convenient for public intercollegiate athletic sports, and serve the purpose of an auditorium for college events.

The south section of the building contains the shower-baths, locker, rubbing and drying rooms.

The plans for the completed building include two wings. They will contain all the essential features of a modern gymnasium. The first floor of the men's section will be equipped for college club-rooms. The second floor will contain the gymnastic apparatus for calisthenics. The woman's section will be similar, having club-rooms and upper floor gymnasium. Each of the wings will be 90 by 50 feet.

THE COLLEGE EQUIPMENT.

The College Library occupies large central rooms on the first and second floors of Ingram Hall. The main reading-room is on the second floor, and there is also a reading-room on the first floor in connection with the stack-room.

The library, according to the latest accession number, contains 19,170 volumes, exclusive of pamphlets, of which there are about 2,500. The aim of the College in the library has been to get the best books by the best men. The result is an excellent working library, containing standard editions, critical works, books of reference, bound periodicals, etc. There are also several rare and valuable original copies from the early seventeenth and eighteenth centuries, and a few transcripts and reprints of works of earlier date. The library has nearly complete bound sets of the standard American and British magazines, and receives nearly all of the leading journals of a professional or technical character.

In addition to the above library and reading-room facilities on the campus, students have access to the city library, now in the new Carnegie building, one block from the campus. The college library and the city library are largely supplementary, the former being strong in works of reference, the latter naturally furnishing books of more general interest. Both are open with a uniform rule to students and citizens.

The Department of Religious Education has a good collection of appliances for modern religious education, including the leading graded text-books on the Bible, complete sets of the Tissot and Wilde pictures and those of the Presbyterian Board, and numerous books and other materials of value to those engaged in Sunday School work, or preparing for it.

The department provides actual work in selecting and preparing materials for the various grades, and in teaching classes in a thoroughly graded school.

The library is maintained in part by the income of a special gift for the purpose from Mr. Andrew Carnegie. The interest of a fund, raised by the class of 1898 as a memorial to their deceased classmate, Harry D. Clark, is also available for the purchase of books.

The Department of Biology occupies the east end of the first floor of Ingram Hall. Its equipment comprises four laboratories, one each for Anatomy, Bacteriology, Physiology, and Histology and Embryology. All are equipped with the best and newest apparatus. The vivarium and the injection rooms are in the basement. Adjoining the laboratories is the lecture-room, arranged conveniently for the work. Storage and preparation rooms adjoin. The equipment increases yearly, and includes, among the various pieces of apparatus, physiological instruments, such as kymographs, capillary electrometers, moist chambers, rheochords, ergographs, inductoriums, muscle and heart levers, manometers, plethysmographs, sphygmographs, tambours, work adders, signal magnets, microscopes, compound and dissecting, camera lucida, paraffin bath, centrifuge, incubator, besides numerous tanks and aquaria with running water. Several new microscopes of the latest pattern have been added recently. The department has also increased its efficiency by securing a new rotary microtome for cutting sections for the microscope, and a new electrical clock for timing delicate experiments. There have been added, during the past year, several hundred dollars' worth of apparatus in duplicate for student work. This apparatus, as well as the laboratory manual used, is the same as that in use at the Harvard Medical College.

The Department of Physics is located in the west end of the first floor of Ingram Hall, and occupies the following: A laboratory for electricity, magnetism, and mechanics, one for heat, molecular physics, and sound, and a dark room, besides an office and lecture-room adjoining. The electrical laboratory is furnished with four slate-capped piers brought up from the foundations. These are of great value for delicate work where all jarring effects must be avoided. A good deal of apparatus has been recently added to the equipment of the laboratories. It includes an American milliammeter, a ballistic pendulum for measuring elastic and inelastic impacts, a cathetometer of the best type for measuring vertical distances, two

ballistic galvanometers, Michelson's interferometer, and a spectrometer with polarizing attachments. The equipment of this laboratory also includes a successful wireless telegraph instrument, made by one of the students. The laboratory for heat, molecular physics and light is equally well equipped.

The Department of Chemistry occupies the third floor of Ingram Hall; it has a large lecture-room, with a stock-room in close connection. The stock-room is conveniently arranged for chemicals and apparatus. Across the hall are the office library and balance-room, and the laboratories for general chemistry, qualitative, and quantitative analysis. There are also laboratories for organic chemistry and for private research. All laboratories are supplied with hoods and with individual desks, and each desk is furnished with lockers, gas and water. The lecture-room has every facility for demonstration, and the department is well equipped throughout.

Archaeological Collections. The departments of Latin and Greek possess an unusually fine collection of archaeological material. There are several thousand carefully selected photographs and slides, illustrating Greek and Roman history, geography, life and art. Also a small but carefully chosen collection of antiquities of special interest to students of the classics. There are 250 different Roman coins of the most important reigns of the Empire; more than fifty terra cotta lamps illustrating all the types, many of which are figured; Etruscan, Greek and Roman vases, dating from 750 B. C. to about 300 B. C.; bronze fibulae, keys, letter stamps, bone stili, spoons, dice, etc.; several fine specimens of glass from Greece and Italy; inscribed amphora handles, and numerous other articles connected with the daily life of the ancient Romans.

The Barber Collection of Minerals. The nucleus of this collection was given to the college by the Rev. Geo. W. Barber. It is named after the donor, who, being an Amherst man, collected many of the specimens under Professor Shepard, of that school. This is supplemented by the New Orleans Collection, obtained through the influence of the Hon. E. D. Holton, of Milwaukee, from the New Orleans Exposition; and by the Armstrong collection of 500 minerals and rocks.

In addition to these collections is the "Educational Series of Rocks," furnished by the United States Government, and several valuable specimens from the mining regions of Wisconsin and Michigan.

Nearly 2,000 specimens in all are listed, coming from various parts of the world. Besides this central museum, there are

numerous working sets for use in the classes of mineralogy. These sets include hand specimens for study, and tubes of powdered mineral for blowpipe analysis.

Biological Museum. This contains a collection of invertebrates and vertebrates, systematically arranged. The study of the few typical forms of animals studied in the laboratory can thus be supplemented by an investigation of the greater variety of forms to be found in the museum.

An interesting and valuable part of the exhibit is the Congdon collection of birds' eggs. These eggs, representing a large amount of research carried on in Wisconsin and Canada, were collected by Russell T. Congdon, of the class of 1903.

The College Life

STUDENT FELLOWSHIP.

One of the inherent advantages of colleges of the size of Ripon is that students are brought into closer relations with their instructors, and into sympathy with one another. The College is a social democracy. In class-room, at the commons, in the dormitories and on the campus, the equal rights and equal privileges of all students are fully recognized.

SOCIAL LIFE.

A wholesome social atmosphere pervades the institution. This not only affects the life of the dormitories, but also promotes the social spirit between student and student, and between student and faculty. Class or college functions through the year, sometimes initiated by the students, sometimes by members of the faculty, make the year as a whole contribute largely to the social enjoyment of the students.

RELIGIOUS LIFE.

The College is distinctly Christian, and regards the development of Christian character as its greatest work. It is unsectarian in its management. On entrance, the student names the church of his preference. Lists are sent to the pastors of these churches. Every student is given a definite personal welcome in the church of his choice.

Once each month a special Vesper Service, under college auspices, is held in the Congregational Church. This is made possible by the courtesy of the Church, and the co-operation of the pastor, Mr. Pillsbury. Often an exchange is effected with a minister from Wisconsin or from a neighboring state, who addresses the students on some vital and practical theme.

At other times a layman, prominent in religious work, is secured. The Chapel Service is held four days in each week. Attendance at the Chapel Service and at the monthly Vesper Service is required. All other services are voluntary.

The prayer meeting on Tuesday evening, the Association meetings on Sunday and Thursday afternoons, and the Bible study class, are under the management of the Christian Associations. These associations send delegates to the various

state and national conferences. At the beginning of the college year members of the associations meet all trains, and welcome new students.

ATHLETICS AND PHYSICAL TRAINING.

The College encourages outdoor athletic games among the students. To encourage as many as possible to participate, interclass and dormitory games are arranged. This College is a member of the Wisconsin Intercollegiate Athletic Association, and all games are played under its rules.

The College is fortunate in possessing an excellent athletic field. Recently a quarter-mile cinder-track has been built on the field. There is also ample space in the field for football and baseball.

The Indoor Athletic Field makes it possible to continue such athletic training and games through the year.

By placing the gymnasium work and the training of all teams under the care of a thoroughly-trained specialist, who is a regular member of the college faculty, physical training has been developed to a high degree of efficiency, under the best possible conditions.

General supervision of all athletic interest of the College is now vested in a committee, consisting of the Dean of the College, the Director of Athletics, a member of the Board of Trustees, and the President and Secretary of The Student Athletic Association. The Student Athletic Association includes all the students in its membership.

This committee formulates all rules, appoints managers for the various teams, and is responsible for the athletic policy of the College. All contracts for games are made by authority of the committee, witnessed by the signature of the Dean.

THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

During the formative period of college life there is great necessity for symmetrical development, for a balancing of intellectual with spiritual growth. The College Y. M. C. A. recognized this necessity, and organized for the purpose of aiding this harmonious development. In opening its doors to all young men of the College, the association aims to extend its sphere of influence as far as possible. Although distinctively a student organization, the association has the active support of the faculty, some of them being members, and many leading

in the meetings. In order to keep in touch with the larger movement, the College Y. M. C. A. aims to be represented regularly at the state conventions, and also at the yearly conference of college men held at Lake Geneva.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

The object of the Young Women's Christian Association is the development of Christian character in its members, and the prosecution of active Christian work, especially among the young women of the institution. The active membership of the association consists of women connected with the College, who are members of the Christian churches. Any woman in the College may become an associate member. The association is affiliated with the international organization.

THE ORATORICAL UNION.

The Oratorical Union, under its present constitution, controls oratory, debate, and the "College Days." Two members of the faculty, together with the President, Vice-President, and the Secretary of the Union, the Editor and Business Manager of the "College Days," and the Chairman of the Debate Committee, constitute a Board of Control, which has general direction of all affairs. The Union holds membership in the Wisconsin Intercollegiate Oratorical Association, and also in the Interstate Oratorical Association.

"COLLEGE DAYS."

The "College Days" is a weekly publication. It continues, as heretofore, to be issued by a board of editors elected by the student body. It is now in its forty-third year. It aims to record the various phases of campus life. To this end, it occasionally publishes articles by professors and students, either the records of personal experiences or the results of special investigation. It has aimed to keep in touch with sister colleges, has noted the goings and comings of alumni, and has endeavored to record, in lighter vein, the pleasures and pastimes of the students.

RIPON COLLEGE GLEE CLUBS.

There are two Glee Clubs in the College: one for the men, known as the Ripon College Glee Club; the other for the women, known as the Cecilian Chorus. Both these clubs are in charge of the Director of the School of Music, Professor Elizabeth Battle Bintliff.

THE COLLEGE BAND.

The College Band furnishes music for athletic contests and other events, such as the "campus sings," etc. Its membership is about twenty. All the uniforms and the fundamental instruments are owned by the College and loaned to the students. No charge is made for the use of these, but members are required to assume a responsibility for proper care of the same while in their possession. The band is an important factor in college life; it affords a means of training and of pleasant recreation for those who play band instruments.

THE DINING ASSOCIATION.

This is a co-operative association of students, for the purpose of furnishing board of good quality at low cost. The association occupies the beautiful Alumni Commons in West Building—quarters well equipped in every particular for the use of the association. The college authorities give special attention to this Commons, audit the books, and give general supervision to its affairs, but the management is largely in the hands of the Students' Co-operative Dining Association. They elect their own officers.

THE LEAGUE.

This is an organization of the young women who live outside of Bartlett Cottage. Like the organization within Bartlett Cottage, it is intended for unifying the varied yet common interests of its members. A rest-room on the third floor of Ingram Hall has been furnished for them, where it is possible to hold meetings, or to spend a study hour between classes.

"THE CRIMSON."

The Junior Class publishes a Ripon College Annual known as "The Crimson." It is a book of college life, dealing, among other things, with the faculty, class and student organizations, social life, and athletics.

General Information

STUDENT EXPENSES.

The charge to the student is but a small part of the cost to the College. The balance of the cost is met by the income of the endowment fund, and by gifts from trustees and other friends of the College.

During the last few years Ripon College has spent a large amount of money in improving the buildings and the furnishings, and in increasing the equipment in the library and in the science laboratories. Of even greater value to the student is the fact that the faculty has been increased, and the courses of instruction enriched. For this reason, the incidental fee was slightly increased in September, 1908. In view of the value of the courses of instruction, the fine equipment in laboratories, library and lecture-room, and the thoroughly modern conveniences in dormitories and commons, the increase in cost is small, and the total cost to the student exceptionally low.

Tuition, per semester.....	\$10.00
Incidental Fee, per semester.....	21.75

LABORATORY FEES PER SEMESTER.

Physics Laboratory, per unit hour.....	\$1.50
Bacteriology and Embryology.....	7.50
Anatomy, Histology, Advanced Botany....	3.00
Physiology	1.50
Chemistry, four-hour course.....	6.00
Breakage Deposit in Chemistry.....	3.00
Mineralogy	2.50
Archaeology	1.50
Surveying	2.50

ROOM RENT.

Smith Hall, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room.	
Rooms number 102, 103, 105, 106, 201, 203, 205, 300, 301, 303, 305, per semester....	\$20.00
Rooms number 101, 107, 202, 206, 207, 302, 306, 307, per semester.....	22.50

Rooms number 100, 108, 200, 208, 308, per semester	25.00
West, College, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester	20.00
Dawes Cottage, Dormitory for men, with steam heat, hot and cold water, furnished rooms, two men in each room, per semester	15.00
Bartlett Cottage, Dormitory for women, with steam heat, hot and cold water, furnished rooms, electric lights in each room, per semester	24.00

Dormitory rooms are furnished with all necessary heavy furnishings. Students will bring their own bedding, pillows, rug for the floor, and such ornaments as they desire for their rooms. All buildings are heated with steam, furnished with hot and cold water, gas and electricity. Price of room rent in dormitories for men does not include cost of light in the rooms. Price charged in Bartlett Cottage includes electric light in each room.

All bills for tuition and room rent must be paid at the beginning of each semester. Room rent and laboratory fees cannot be refunded to students who leave dormitories or laboratory classes during the semester.

If a student leaves college for good reason before the middle of a semester, one-half his college bills will be refunded. No refund will be made to a student who remains in attendance more than half a semester.

The total cost for the student varies. The minimum expense will be within the reach of students of limited resources, while others may easily make provision for themselves in accordance with their means.

BOARD.

Board is furnished at the College Commons in the West Building. During the present year it has cost \$3.00 a week. The cost is kept at the lowest possible figure, and is divided equally among the members of the Dining Association.

There are other boarding clubs and private houses that will furnish board to students at reasonable prices. Lists of these can be had at the Treasurer's office, at the beginning of the year.

STUDENT AID.

A standing committee of the faculty acts as an employment bureau, and is always ready to assist students desiring employment. Faithful, worthy students, who are willing to work, need not abandon their course of study for lack of money. Many of the most successful graduates of the College have helped themselves in this way. Advanced students of high standing have frequent opportunity to do private teaching, and citizens of the town are ready to employ students in various capacities.

There are a few scholarships to be granted, as a reward of merit to successful students.

SPECIAL FUNDS.

The College has available several funds for use as indicated below. Anyone desiring to be a candidate for the benefits of any of these funds should write to the Registrar for blanks to make application therefor. These applications will be considered by the faculty committee on scholarships, and the benefits will be distributed where they will appear to accomplish the greatest good.

Rufus Dodge Fund. The late Rufus Dodge, of Beaver Dam, left the College a legacy of \$9,000 as a permanent fund to aid young women of limited means in getting an education. The interest of this fund is available each year for distribution among such students for this purpose, according to their need.

Philo Sherman Bennett Scholarship Loan Fund. Mr. Philo S. Bennett, of New Haven, Connecticut, left \$10,000 in his will to Wm. J. Bryan, as trustee, to divide among several colleges, in his discretion, as a fund to help worthy young men. \$500 of this fund was given in June, 1905, to Ripon College, the conditions being that the same be invested as a perpetual fund, the income only to be loaned to worthy young men in need, who shall be honor bound to return the loan; and when so repaid, it shall be re-loaned in the same manner.

The principal fund is known as the Philo Sherman Bennett Fund. The income from this fund, the amount which is available for student use, is called the William Jennings Bryan, Trustee, Fund.

Sumner T. Bartlett Scholarship Fund. The sum of \$1,000 was given by Mrs. Lucy Bartlett, of Oshkosh, Wisconsin, for a permanent scholarship. The condition of the scholarship is

that one student at a time, forever, shall be admitted to Ripon College free of tuition, such student to be designated by the college faculty, and to be one studying for the gospel ministry or for special missionary work.

Rev. E. W. Cook Scholarship Fund. The sum of \$500 was given by the Rev. E. W. Cook, of Ripon, for the purchase of a scholarship. Free tuition is to be granted to one student at a time from the income of this fund, in perpetuity.

O. W. Van Vechtin Student Loan Fund. This was the gift of O. W. Van Vechtin, who presented to the President \$100 as a loan fund, to be under the control of the President, and to be loaned to worthy students, and to draw no interest while the borrowers are in college, but from date of leaving college to draw interest at the legal rate. The interest accruing may be added to the fund or given to students, at the President's discretion.

David Whitcomb Scholarship Fund. \$1,000 was given by David Whitcomb, of Worcester, Massachusetts, for the purchase of a permanent scholarship, the income of which fund is to be used annually to aid needy and worthy students. By resolution of the Board of Trustees, June 20, 1885, the income is appropriated to payment of necessary term bills of young men who shall be nominated by the faculty for such credit, the sons of missionaries and ministers to be preferred, and the amount of appropriation to each pupil to be determined by the faculty.

Alumni Association, 1868, M. W. Pinkerton Memorial Fund. This fund was collected by the Alumni Association as a memorial to M. W. Pinkerton, of the class of 1868. Mr. Pinkerton gave his life to the cause of Missions in connection with the work of the American Board in Africa. Up to this time, the fund has been invested for the Association by the College Treasurer, who has had no responsibility concerning it, except that of collecting the interest, and paying it to the Treasurer of the Association.

At the annual meeting of the Association in June, 1910, by a formal vote, the fund was turned over to the College, to be used according to the general intent of the givers, but without further responsibility to the Association.

Class of 1898 Harry D. Clark Memorial Fund. This is a fund credited to the class of 1898, as a memorial to their deceased classmate Harry D. Clark. The interest is to be used for the purchase of books for the library.

Class of 1901 Owen C. Rowlands Memorial Art Fund. The class of 1901 has provided a special fund, the interest of which is to be used for art decorations. It is a memorial to Owen C. Rowlands, a former member of the class, now deceased.

COMMITTEE ON RECOMMENDATIONS.

The committee on recommendations renders assistance to graduates seeking employment, and to employers. No charge is made for this service, and the committee makes special effort to find the position for which the applicant is prepared. School boards and others employing college graduates can depend upon the faithfulness of the recommendations given.

The call for college graduates as teachers is increasing each year. All graduates and friends of the College are asked to co-operate with this committee by notifying it of vacancies.

The School of Music

The School of Music offers extended courses in the practical and theoretical study of music, designing to fit students for the professional musical life. The special purpose of instruction is to produce musicians who shall combine sound intellectual training with symmetrical development of the musical faculties. To this end all its work is planned. The regular courses are for those who wish to complete work leading to graduation; but those who wish to pursue only partial courses are also admitted. Preparatory courses have been arranged for piano, violin, and voice, so that the student who is only a beginner may find opportunity for study. The emphasis will be placed on thoroughness of work, whether in the elementary or in the advanced grade.

COURSES OF STUDY.

The following outlines of courses of study in the several departments of the School of Music may be varied to meet the needs of individual students.

PIANOFORTE.

Preparatory Course.

Studies in position and touch. Elementary technic. Major and minor scales in slow practice. Etudes by Burgmuller, Brunner, Duvernoy, Heller, Lecouppey, Loeschorn, Schytte. Sonatinas by Clementi, Kuhnau, Reinecke, and others. Pieces to suit the grade.

First Year.

Mason Technic, major and minor scales and arpeggios. Etudes by Loeschorn, Czerny, Schytte, Heller, Bach, Little; Preludes and Fugues; Sonatas by Haydn, Mozart. Modern pieces. Memorizing.

Second Year.

Mason Technic. Etudes by Cramer, Turner, Heller. Bach Inventions. Sonatas by Mozart, Beethoven, Weber. Songs Without Words, Mendelssohn. Pieces by Schumann, Chopin, Schubert, Raff, Grieg, Godard, Chaminade. Memorizing.

Third Year.

Scales in double thirds and sixths. Kullak's Preparatory Octave School. Etudes by Moscheles. English Suites, Bach; Sonatas by Schubert, Weber, Beethoven; Fantasias, Impromptus, etc., by Raff, Mendelssohn, Schubert, Chopin, Schumann. Concertos by Mozart and Mendelssohn. Concert pieces by Rubinstein, Grieg, Moszkowski, MacDowell, Godard, Schytte, Schuett, Sinding. Memorizing.

Fourth Year.

Kullak's Octave School. Clementi's Gradus ad Parnassum. Tausig's Daily Studies. Etudes by Chopin, Henselt, etc. Preludes and Fugues, Bach. Sonatas and Concertos by Beethoven, Chopin, Grieg, MacDowell, Saint Saëns, etc. Concert pieces by Liszt, Chopin, Schumann, Rachmaninoff, Alkan, Arensky, and other modern composers. Memorizing.

ORGAN.**First Year.**

Rink and Dunham, Organ Schools.

Buck Pedal Phrasing studies. Bach, Little Preludes and Fugues. Trios by Rheinberger. Easy pieces by Guilmant, Merkel, Batiste.

Second Year.

Rink and Whiting, Preludes and Postludes. Bach, Preludes and Fugues. Sonatas by Guilmant, Rheinberger, etc. Mendelssohn, Preludes and Fugues. Modern Pieces.

Third Year.

Bach Chorales, Preludes and Fugues. Sonatas by Guilmant, Rheinberger, Mendelssohn. Modern Pieces.

Fourth Year.

Bach Trios, Preludes and Fugues. Sonatas by Mendelssohn, Rheinberger, etc. Concert pieces by classic and modern composers. Practical work in accompanying church services and oratorios.

VIOLIN.

First Year.

David's Violin School, Part I. Studies by Hoffmann, Ries, Hermann, Easy Pieces and Duets by Dancla, Papini, Pleyel, Alard, Weiss, etc. Particular attention given to correct position, intonation, tone and bowing.

Second Year.

David's Violin School, Part II. Schradieck's Scale Studies. Etudes by Kayser and Mazas. Sonatas by Haydn. Fantasias by Jensa, Singelee, Dancla, and the easier solos of Leonard, Wieniawski, De Beriot, Hauser, Sivori, Allen.

Third Year.

Schradieck's School of Technic. Etudes by Kreutzer, Fiorillo, Dont; Sonatas by Mozart, Concert Pieces by Rode, Kalewoda, Spohr, Rust, Vieuxtemps, Bazzini.

Fourth Year.

Caprices of Rode and Gavinie. Hoffmann Orchestra Studies. Beethoven's Sonatas. Concertos by Viotti, Rode, Kreutzer, De Beriot, Mendelssohn. Solos by Sarasate, Nachez, Joachim, and other modern composers.

VOICE.

The aim of this department is:

I. The establishment of a pure tone in which there shall be resonance, volume, flexibility, and expression. This pure tone is to be acquired by means of perfect breath control, open throat and equalization of registers.

II. A perfect blending of tone and word, which results in the clear-cut enunciation desired by performer and listener.

III. The art of phrasing; versatility in style.

IV. Interpretation of songs, sacred and secular, and arias from oratorios and operas.

First Year.

Tone-Placing, Blending of Registers.—Dr. Edward S. Kimball's Exercises; Henneman's 101 Exercises; Sieber Op. 92-96.

Flexibility.—Lutgen Exercises in Velocity; Sieber, Op. 42-43; Marzo's Preparatory Course.

Vowel and Consonant Work.—Vaccai Italian Exercises; Sieber, 92-96; "Vowel Songs."

Phrasing.—Concone, Op. 9; Easy songs for application of principles learned.

Second Year.

Marzo, Book I.; Sieber, Op. 45; Marchesi Italian Exercises; Sieber, Op. 30-35; Concone, Op. 10. Songs, sacred and secular, of the older Italian and German composers and of the best modern composers.

Third Year.

Marzo, Art of Vocalization, Books II., III.; Sieber, Op. 30-35; Concone, Op. 12; Study of the classics and arias from oratorios.

Fourth Year.

Bordogni, II., III.; Aprile Exercises. Concert songs from classic and modern composers. Arias from the operas of German, Italian and French Schools.

THEORY AND HISTORY OF MUSIC.

The aim of the courses in these branches of music education is to give the student an intelligent conception of music as a science, aiding him to become a musician capable of understanding and interpreting a wide range of music, and to lay a broad foundation for later studies which he may undertake in the field of composition. This work will be given in classes only. The outline of the course is as follows:

Elementary Theory.

A. Sight-reading; ear-training; elementary Harmony, including the study of intervals, notation and terminology.

Choral.

B. Advanced Sight-reading preparatory to and including the performance of the standard cantatas and oratorios.

Through the year. Two hours.

Musical Appreciation.

C. This course will include the study of the principles of musical form, the development of music in its various branches, the stories of the standard oratorios and operas, and some analytical study of the larger instrumental compositions for the

piano, violin and orchestra, such as the sonata, overture and symphony. There will be lectures and illustrations. The purpose of the course is to awaken the musical taste, and develop the faculty of listening and hearing intelligently. This course is supplemented by later courses in Musical Form and History.

Through the year. One hour.

Theory.

D. Harmony, first year. Ear-training.
Through the year. Four hours.

Theory.

E. Harmony, second year. Analysis of musical form.
Through the year. Four hours.

Theory and History.

F. Counterpoint. Musical History.
Prerequisite: Courses A and D.
Through the year. Four hours.

PUBLIC SCHOOL MUSIC.

This course provides instruction for those students who wish to become teachers or supervisors of music in the public schools. It may be completed in two years. The outline follows:

First Year.

Course A.—Rudiments of Music, Terminology, Notation and Sight-reading.

Course B.—Advanced sight-reading choral class, including the study of standard cantatas and oratorios.

Course D.—Harmony, first year. Ear-training.

One-half Course F.—Musical History. Voice culture.

Second Year.

Methods of Teaching. Practice Teaching.

Course E.—Harmony, second year. Analysis of Musical Form.

Course C.—Musical Appreciation. Pedagogy. Voice Culture or Piano.

Students in this department must have met the college entrance requirements in English before obtaining the certificate.

LITERARY REQUIREMENTS.

Candidates for graduation must complete academic work equivalent to a high school course and including the following subjects:

History 2 units, Science 1 unit, Algebra 1 unit, German 2 units, French 1 unit, English 3 units. In addition to these subjects, English 1 is required.

Candidates for graduation must give a public recital, during the last year, of each course which they complete.

DAY PUPILS.

To meet the demands for musical instruction on the part of the residents of Ripon and vicinity, who have no time or desire to take any of the regular courses, or to take studies in the College, the following arrangements may be made: Pupils will be received from their homes, who shall simply report to the teacher for instruction at appointed hours, and have no further connection with the College. Tuition will be the same as for the other students of the School of Music, with the exception of the incidental fee, from which they shall be exempt.

Musical activities are planned which will be of interest and profit. The School of Music will be made the center of all musical life. Everything of real value pertaining to the subject of musical education and advancement will be considered and encouraged by the Director. The hearty co-operation of all who are interested in the best of music is asked, that the result may be one which will not only benefit the School of Music and the College, but will add an influence for good to the life of the community.

TUITION AND EXPENSES.

In the matter of expenses, a School of Music in a small city like Ripon has great advantages to offer over those in larger cities. The expenses of living are less, for both teacher and pupil. The best instruction can be given, at prices which could not be afforded in a larger place. The cost of board and room is very reasonable, as compared with prices in many places.

A schedule of expenses is given below.

Tuition, per semester, payable in advance, two lessons per week.

Private half-hour lessons:

Piano	\$35.00
Pipe Organ	40.00
Violin	35.00
Voice	35.00

Classes in Theory, Musical Appreciation and History, Choral work.

Course A is open to all students, free of charge.

Course B. This class is open to students of the College, School of Music, and also to citizens of Ripon, who enjoy the study of the Standard Cantatas, Masses or Oratorios.

Course D	\$10.00
Course E	10.00
Course F	10.00
Methods of Teaching Public School Music, in class	5.00

Use of Piano for Practice:

One hour a day, per semester	4.50
Two hours a day, per semester	7.50
Additional hours, each, per semester	1.50
Use of the Church organ, for practice, per hour25
Use of the pedal organ in the chapel, for practice, per hour20
Incidental fee, per semester	4.00

The incidental fee gives the student the privilege of taking, without further charge, one of the required college studies.

A fee of \$1.00 for Artists' recitals is charged each music student. This fee covers the price of tickets to all recitals and concerts of the School of Music, except the Oratorio Concerts.

The orchestra of the School of Music will hold regular rehearsals every week. Membership in this orchestra is open to students of the School of Music and College, or citizens of Ripon. This is a fine opportunity for those who play orchestral instruments.

Rooms may be rented in the dormitories for from \$18.00 to \$24.00 per semester. Board can be obtained at the Commons for \$2.75 per week. Other boarding places can be found, whose prices are reasonable. All bills for tuition must be paid at the beginning of the semester, or special arrangements made with the Director.

This must be done, and the name registered, before lessons can be assigned. No deduction will be made for absence from lessons except in cases of protracted illness, when the loss

will be shared equally by the School of Music and the student, on the written order of the Director. All non-resident students of the School of Music are subject to the regulations of the College.

MISCELLANEOUS ITEMS.

No prices will be made by the lesson or for any time less than a half semester.

Pupils from out of town may arrange for an hour (private) lesson once a week instead of half hours twice a week.

Pianos for practice can be rented at the School of Music or in the town.

No student of the School of Music will be allowed to take a musical part in any public exercise without permission from his teacher.

Semesters of the School of Music commence with those of the College, and its holidays are the same as those observed by the College.

All persons desiring musical instruction are encouraged in every possible way; graduates and others who have been students of Ripon School of Music will be recommended to fill suitable positions whenever it can be conscientiously done.

Further announcements concerning teachers for the violin, piano and theory will be made at a later time, and adequate provision will be made to meet the demands in these departments.

Degrees Conferred, June, 1910

MASTER OF ARTS.

Jennie Hall	Ripon
Mary C. Collins.....	Keokuk, Ia.

BACHELOR OF ARTS.

Howard Warren Anderson.....	Eldorado
William George Bate.....	New London
Emma Louise Brister.....	Kenosha
Allen George Burg.....	Calumetville
Walter Glynn Butler.....	Montello
Jennie Ethel Chittenden.....	Ripon
Arthur Floyd Cook.....	Mission Hill, S. D.
William Jacobs Cotton.....	Elgin, Ill.
Edward Jethro Cragoe.....	Oakfield
Ira Cleveland Davis.....	Randolph
Henry Ward Duel.....	Fond du Lac
James Eugene Dunlap.....	Ripon
Morgan Edwards	Oshkosh
John Walter Elliott.....	Boston, Mass.
Ole Forsberg	Prentice
Lloyd Charles French.....	Franksville
Abby May Higgins.....	Berlin
Thomas Jackson Hill.....	Russell, Minn.
Frances Ethlyn Holt.....	Columbus
Ralph Arna Holvenstot.....	Princeton
Roy Vernon Imrie.....	Roberts
John Richard Jones.....	Milwaukee
John Edward Jones.....	Cambria
Samuel Theodore Kidder.....	Ripon
George Lucas Kingsbury.....	Ripon
John Nicholas Loshinski.....	Princeton
Harvey Herman Mader.....	Oshkosh
Francis Augustus McGray.....	Green Lake
William Frederick Meggers.....	Clintonville
Edward Merbach	Ripon
James Edgar Moriarity.....	Fond du Lac
Helen Mutch	Ripon
Nellie Owens	Randolph

Ira Shelden Parker.....	Tomahawk
Clinton Virgil Reed.....	Benton, Ill.
Jesse Marion Reed.....	Benton, Ill.
Belva Louise Ronne.....	Eau Claire
Arthur Ernest Schaar.....	Fond du Lac
Erminie Rawlings Sherman.....	St. Joseph, Mo.
Rena Belle Shuart.....	Pleasant Prairie
Wilbert Leo Smith.....	Milwaukee
Joseph Ellsworth Swetland.....	Reedsburg
Raymond Lester Wegel.....	Fond du Lac
Robert Angus Weir.....	Portage
Ralph Edward Winchester.....	Malden, Mass.
Erna Ida Zobel.....	Ripon

List of Students

GRADUATE.

William Frederick Meggers.....Clintonville

SENIORS.

Carl Peter Bast.....Rockfield
 Myrtle Marie Bletsoe.....Prescott
 Charles Carl Bong.....Green Bay
 Laura CunninghamBerlin
 Royal Edwin Davis.....Randolph
 Robert Newcomb Gibson.....Clintonville
 Bruno Julius Glaubitz.....Plymouth
 Helen Hazel Goodrich.....Ripon
 Ruth Frances Gower.....Chippewa Falls
 Emmitt Albert Hassett.....Merrill
 Mabel HoltoffMilwaukee
 Howell HumphreyWild Rose
 Robert HumphreyWild Rose
 James Elton Imrie.....Roberts
 Haydn Anthony Johns.....Randolph
 Irmagard JonesIron River, Mich.
 Harvey Earl Larsen.....Clintonville
 George Henry Lewis.....Montreal, Canada
 Oscar Henry Lichtenberg.....Princeton
 George Henry Lucas.....Gettysburg, S. D.
 Harold Jewett MacNeill.....South Kaukauna
 Cora Maude Manaton.....Green Bay
 Ethel Adele Miller.....Ripon
 Myrle Ann Miller.....Ripon
 Vine MillerRipon
 Avis MooneyRipon
 Frank George Mooney.....Ripon
 Mace McCracken Morse.....Princeton
 Frank Marcel Nickodem.....Princeton
 Ruth OsgoodEau Claire
 Chauncey George Peters.....New Richmond
 Herman Carl Piehl.....Fond du Lac
 Guy Arland Russell.....Ripon
 Lydia Leonore Schaper.....Plymouth
 Ethel SutherlandFond du Lac
 Mary Buckley Taintor.....Ripon
 Jessie ThomasRipon
 Leonard Newton Thompson.....New Richmond
 Beryl Beatrice Thompson.....Grand Rapids
 William Francis Werfelman.....Brooklyn, N. Y.
 Harold Martin White.....Oshkosh
 Ruth WinchesterMalden, Mass.
 Louise ZobelRipon

JUNIORS.

Charles Bullen Atwood.....	Milwaukee
Arthur Carroll Barry.....	Montello
Horace Abram Bumby.....	Ripon
Roy Harry Cameron.....	Oshkosh
Charles Martel Cochrane.....	Fox Lake
Maude Elizabeth Cragg.....	Madison, N. Y.
Mildred Irene Dockery.....	Fond du Lac
Sigrid Esbensen	Osseo
Jesse Irving Etheridge.....	Wild Rose
William Lee Finnegan.....	Lavalle
Frances Mary Foote.....	Ripon
Edward Daniel Fruth.....	Fond du Lac
Harvey William Guetzloe.....	Kiel
Latimer Johns	Randolph
Llewellyn Jones	Cambria
Corinna A. Kirchgeorg.....	Ripon
Ellis Llewellyn Krause.....	Ripon
Ethel Emma Lyon.....	Sawyer
Eileen Agnes Miller.....	Brandon
James Clarence Mutch.....	Ripon
Glen Raymond Otis.....	Apollonia
DeWitt Stewart Pinch.....	Rosendale
Perry Sheldon Pray.....	Fond du Lac
Irene Margaret Runals.....	Ripon
Albert Jacob Stelter.....	Ripon
William Harvor Taylor.....	Two Rivers
Carl Wesle Utgard.....	New Richmond
Robert Vivian Young.....	Beaver Dam

SOPHOMORES.

Theodore Hieronymus Bast.....	Rockfield
Samuel Bruce Black.....	Fort Atkinson
Harold Renshaw Brayton.....	Ripon
Helen Irmagard Chittenden.....	Ripon
Bert Llewellyn Choate.....	Fond du Lac
Claude Henry Cragoe.....	Oakfield
William Henry Davies.....	Cambria
Genevieve Marion Dopp.....	Wild Rose
Christine Elizabeth Draeger.....	Fond du Lac
Arthur Albert Dunkel.....	Phillips
Rowland Evans	Cambria
Lillian Matilda Farnham.....	Sparta
Louis Burwell Favour.....	Ripon

Charles Finnegan.....	New Richmond
Edward Augustus Gerber.....	Durand
Lowell Pierce Goodrich.....	Ripon
Louis Encking Graf.....	Ripon
Eleanor May Grant.....	Watersmeet, Mich.
Carl Fred Hanske.....	Kiel
Fred Herrmann.....	Green Bay
Earl Myron Hill.....	Grand Rapids
Mae Augusta Holiday.....	Oshkosh
Benjamin Franklin Howery.....	Black Earth
Florence Alona Hungerford.....	Marengo, Ill.
Jane Blodwen Jones.....	Milwaukee
Angeline Persis Jones.....	Milwaukee
Louis Kornder	Rockfield
Harry Charles Kruger.....	Rhineland
Anna Luella Larkin.....	Rush Lake
Harry Wilbert Leaper.....	Green Bay
Belle Le Claire.....	Oconto
William Hinslea Lyon.....	Brandon
Elizabeth Pelagia Meshynski.....	Ripon
Myrtle Adell Mitchell.....	Vermontville, Mich.
Thomas Smith Murrish.....	Cambridge, Ill.
Alma Helen Nohr.....	Ripon
Gordon Francis O'Connor.....	Fond du Lac
Horace Page Orlady.....	Durand
Humphrey William Owen.....	Nevin, North Wales
Edgar Phillip Rosenthal.....	Phillips
Clarence James Rottmann.....	Ripon
Jeanne Roy	Wausau
Adele Fredericka Schaar.....	Fond du Lac
Robert Albert Shafer.....	Rosendale
Ray Albert Sorenson.....	Rhineland
Alfred De Lloyd Sutherland.....	Fond du Lac
Harry Albert Swartz.....	Oshkosh
Mary Elvira Weeks.....	Oshkosh
John Williams	Milwaukee
Edna Winchester	Malden, Mass.
Hugh Otis Worthing.....	Oakfield

FRESHMEN.

Sidney Elwood Ames.....	Markesan
Ray Morse Atcherson.....	Tomahawk
Lelia Etta Barber.....	Black Earth
Arthur Earl Beauchamp.....	Jacksonville, Ill.
Carl Arthur Becker.....	Green Bay

Henrietta Belden	Ripon
Benjamin Cyrus Benson.....	Rock Island, Ill.
Ruth Hazel Brewer.....	Ripon
Paul Weaver Buffum.....	Rock Island, Ill.
Leigh Frank Bugbee.....	Wausau
Olive Marian Burnside.....	Ripon
Mary Martha Carberry.....	Fond du Lac
Gurth Fothergill Chambers.....	Ripon
Carl Susan Cragoe.....	Oakfield
Will R. Davies.....	Randolph
Bernice Lucile Davies.....	Wild Rose
Donald Wayne Densmore.....	Markesan
Lewis Edward Dunkel.....	Phillips
Frederic Upham Everhard.....	Ripon
Alice Evelyn Foster.....	Plainfield, Ill.
Mary Bernice Gowell.....	Norrie
Harry Ciscel Gregg.....	Milwaukee
Reed Andrews Higby.....	Chadron, Nebr.
George Crawford Hill.....	Grand Rapids
Eva Ina Holiday.....	Ripon
Martha Humphrey	Wild Rose
Mary Imrie	Roberts
Edwin Clarence Johnson.....	Stoughton
Edgar Thomas Jones.....	Pickett
Irma May Knight.....	Markesan
Clarence Arthur Kopp.....	Eau Claire
Elwyn Busian Krause.....	Ripon
Lewis Lloyd Lane.....	Norwood Park, Ill.
Alta Lawrence	Ripon
John Leatherman	Pardeeville
Frank Bowe LeFevre.....	Rosendale
Charlotta Beatrix Liebman.....	Fort Atkinson
Ralph Warren Mapps.....	Wilmington, Ill.
Arthur John Martin.....	Sheboygan
Paul Henry Martin.....	Plymouth
Fred Maynard	Sheboygan
Alvin Ermine McGrath.....	Green Bay
Daniel Franklin McGrath.....	Green Bay
Francis Merkatoris	Green Bay
Marlard Boyd Millard.....	Markesan
Hugh Guy Miller.....	Markesan
Ruby May Morgan.....	Randolph
Harold Mortonson	Fox Lake
Edgar August Paulsen.....	Kiel
Lyle Pease	Sun Prairie

Duane Lansing Peterson.....	Green Bay
Minnie Ellena Peterson.....	Spalding, Mich.
Stanley Moyer Peterson.....	Green Bay
Ida Margaretha Pleuss.....	Brandon
Emil Edward Prellwitz.....	Beaver Dam
Robert E. Preston.....	Ripon
Byron James Rock.....	Plymouth
Ruth Lillian Rottmann.....	Ripon
Frank Rueping.....	Fond du Lac
Jennie Isabelle Safford.....	Omro
Ray Edwin Searle.....	Ripon
Dan Albert Shaffer.....	Almond
Edwin Jefferson Smith.....	Belgrade, Minn.
Helen Annette Smith.....	Ripon
Ella Bertha Streissguth.....	Arlington, Minn.
Frances Emery Stuart.....	Augusta
Carol Eloise Sweet.....	Fond du Lac
Lester Frank Thomas.....	Beaver Dam
Bernard J. Thompson.....	Kilbourn
Gladys Lucile Travis.....	Ripon
Bernice Muriel Travis.....	Ripon
Ruth Evelyn Van Kirk.....	Ripon
Albert James Walker.....	Markesan
James Roland Wedge.....	Waupun
Florine May Weimer.....	Coloma, Mich.
Arthur Henry Wegel.....	Fond du Lac
Eva Florence Weller.....	Ripon
Walter Lincoln Wood.....	Grand Rapids
Frank Carl Yahr.....	Princeton
Lillian Anna Zobel.....	Ripon

SUB-FRESHMEN.

Glen Thomas Bradford.....	Rock Island, Ill.
Mabel Margaret Burlton.....	Oshkosh
William Joseph Connell.....	Fond du Lac
Lyle Chambers French.....	Franksville
Mary Francelia Gilcrest.....	Livermore, Cal.
Andrew Martin Halle.....	Fond du Lac
Katharine Aura Hills.....	Waupun
Samuel Walder Irwin.....	Berlin
Fred August Kaiser.....	Ripon
Leroy Carroll Nedderson.....	Oshkosh
George H. Nickell.....	Berlin
Clare O'Donnell.....	Montello
Fred Albert Piehl.....	Fond du Lac
Frances Luella Savage.....	Brandon
Helen Louise Sniffen.....	Spring Valley, N. Y.
Evelyn Henrietta Teske.....	Princeton
Harry Edward Wegel.....	Fond du Lac

SCHOOL OF MUSIC.

Max Alberts.....	Berlin
Helen C. Barber.....	Ripon
Benjamin C. Benson.....	Rock Island, Ill.
Harold R. Brayton.....	Ripon
Teresa Agatha Bresnahan.....	Ripon
Ruth Hazel Brewer.....	Ripon
Carol David Brooks.....	Green Lake
Horace Dudley Brooks.....	Green Lake
Ida Emelie Buchholz.....	Ripon
Leigh F. Bugbee.....	Wausau
Mabel Margaret Burlton.....	Oshkosh
Nellie Burmeister	West Rosendale
Katie Gertrude Butenhoff.....	Markesan
Gurth F. Chambers.....	Ripon
Carrie M. Clark.....	Ripon
Bernice Lucile Davies.....	Wild Rose
Louise Dillon	Ripon
Nina Marie Faustman.....	Ripon
Anna Ruth Ferguson.....	Brandon
Alice Evelyn Foster.....	Plainfield, Ill.
Harriet S. Giddings.....	Fond du Lac
Mary Francela Gilcrest.....	Livermore, Cal.
Ethel Dorothy Griffenius.....	Aniwa
Andrew Halle	Fond du Lac
Mary Jeanette Hamilton.....	Berlin
Archibald Hargrave	Ripon
Bertha Belle Harris.....	Denver, Colo.
Maude Hawkins	Wild Rose
Elnora Elizabeth Hill.....	Ripon
Katharine Aura Hills.....	Waupun
Clara J. Hoyer.....	Princeton
Howell Humphrey	Wild Rose
Martha Humphrey	Wild Rose
Florence Alona Hungerford.....	Joliet, Ill.
Alice Hutchinson	Ripon
Mary Elizabeth Imrie.....	Roberts
Irmagard Case Jones.....	Iron River, Mich.
Irma M. Knight.....	Markesan
Mabel Lucile Krebbs.....	Ripon
Alta Lawrence	Ripon
Oscar H. Lichtenberg.....	Princeton
Russell Melton Lincoln.....	Ripon
Harold Jewett MacNeill.....	South Kaukauna

Audrey Edith Mahon.....	Ripon
Gladys Markham	Markesan
Elpha Merbach	South Kaukauna
Vine Miller	Ripon
Myrtle Mitchell	Vermontville, Mich.
Grace Amalie Moore.....	Waupun
James Clarence Mutch.....	Ripon
Irving Noveau	Rush Lake
Minnie Ellena Peterson.....	Spalding, Mich.
Maude Pillsbury	Ripon
Eunice Pynch	Ripon
Louise M. Reichmuth.....	Ripon
Louis Roach	Berlin
Willa Bernice Rockhill.....	Waupun
Jennie Isabelle Safford.....	Omro
Frances Luella Savage.....	Waupun
Lulu Sherwin	Brandon
Robert Sherwood	Ripon
Helen Annette Smith.....	Braidwood, Ill.
Irene E. Smith.....	Brandon
Helen Louise Sniffen.....	Spring Valley, N. Y.
Helen Stirling	Berlin
Litta Stone	Ripon
Ella Streissguth.....	Arlington, Minn.
Frances Emery Stuart.....	Augusta, Me.
Ethel Adela Sutherland.....	Fond du Lac
Carol Sweet	Fond du Lac
William Tares	Rush Lake
Evelyn Henrietta Teske.....	Princeton
Louise Staunton Thomas.....	Ripon
Margaret Thomas	Ripon
Jessie Harriet Trotter.....	Morris, Ill.
Florine Mae Weimer.....	Coloma, Mich.
William F. Werfelman.....	Brooklyn, N. Y.
Florence Whiting.....	Berlin
Jessy Wilson	Ripon
Frank C. Yahr.....	Princeton
Alma Zobel	Ripon
Clara Zobel	Ripon
Lola Zobel.....	Ripon
Louise Zobel	Ripon

Summary of Attendance

	Men	Women	Total
Graduate	1		1
Seniors	24	19	43
Juniors	20	8	28
Sophomores	32	18	50
Freshmen	51	29	80
	<hr/> 128	<hr/> 74	<hr/> 202
Sub-Freshmen	11	6	17
Music	20	64	84
	<hr/> 159	<hr/> 144	<hr/> 303
Deducting duplicates.....	11	25	36
	<hr/> 148	<hr/> 119	<hr/> 267
Corrected total.....			

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UNIVERSITY OF ILLINOIS-URBANA



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